

20020311.qrp v02_n491.qrl.20020311

Date: Mon, 11 Mar 2002 19:03:09 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2491

QRP-L Digest 2491

Topics covered in this issue include:

- 1) [121779] Re: PSK31 is not all it's cracked up to be
by "George, W5YR" <w5yr@att.net>
- 2) [121780] Re: multiband dipole question
by Dave Sjolín <sjolin@swbell.net>
- 3) [121781] DMNS <-> Space shuttle ShuttleTONIGHT!!
by "Rod N0RC" <rod@n0rc.com>
- 4) [121782] FS: Nc-20
by "Kevin Nathan" <k7rx@attbi.com>
- 5) [121783] OFF Topic - post / Ham Radio on TV
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 6) [121784] RE: Woodpecker on 15 meters!
by "AI2Q Alex" <ai2q@adelphia.net>
- 7) [121785] FS Ten Tec Omni V Fox killer!
by "W5TB" <w5tb@arrl.net>
- 8) [121786] Re: OFF Topic - post / Ham Radio on TV
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 9) [121787] Heavy duty Pixie-2
by Bob Mason <skydive@usa.net>
- 10) [121788] more on AN/PIXIE-2
by Bob Mason <skydive@usa.net>
- 11) [121789] Re: Woodpecker on 15 meters!
by "George, W5YR" <w5yr@att.net>
- 12) [121790] Capacitor & Transistor Identification
by "John Kirk" <ve6xt@hotmail.com>
- 13) [121791] Elecraft K1 Transceiver: A Lean, Mean CW Machine
by "Bruce Prior" <n7rr@hotmail.com>
- 14) [121792] K5HK/MM QRPp CQing from Pacific on 7.039 6:03UTC
by Jack WsixABC <w6abc@yahoo.com>
- 15) [121793] Re: Heavy duty Pixie-2
by "Rob Matherly" <kc0bom@arrl.net>
- 16) [121794] Re: WQ3RP DE K8XF
by George Gingell <k3tks@u1.abs.net>
- 17) [121795] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine
by Parker Buckley <buckley@iapdatacom.net>
- 18) [121796] Thanks all !!!!!!!
by "George Osier" <gosier@twcnv.rr.com>
- 19) [121797] Boots for my FT-817

- by "Karl F. Larsen" <k5di@zianet.com>
- 20) [121798] Re: SSB filter from cheap xtals
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
- 21) [121799] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine
by Bruce Grubbs <mail@brucegrubbs.com>
- 22) [121800] WTB: Ten Tec C/21 parts
by Marcus C Leatham <leatham1@juno.com>
- 23) [121801] Re: slingshot accessories
by "E. Roswell" <eroswell@monmouth.com>
- 24) [121802] PN2222A Transistors
by "Brian" <brian@iquest.net>
- 25) [121803] Test Please delete
by "V Cortina" <vcortina@hvc.rr.com>
- 26) [121804] Re: [QRPP-I] Re: WQ3RP DE K8XF
by W2AGN <w2agn@pobox.com>
- 27) [121805] RE: [QRPP-I] Re: WQ3RP DE K8XF
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
- 28) [121806] Ten Tec's Story on the 516
by Kenneth Hoglund <hoglund@wfu.edu>
- 29) [121807] Re: Ten Tec's Story on the 516
by W2AGN <w2agn@pobox.com>
- 30) [121808] Re: [fpqrp] PN2222A Transistors
by Macstein@aol.com
- 31) [121809] Bizarre list problem.
by "V Cortina" <vcortina@hvc.rr.com>
- 32) [121810] Re: Ten Tec's Story on the 516
by <duffy01@fuse.net>
- 33) [121811] Re: Woodpecker on 15 meters!
by Jake Brodsky <frussle@erols.com>
- 34) [121812] Re: [fpqrp] PN2222A Transistors
by "Brian" <brian@iquest.net>
- 35) [121813] Re: Open Wire Transmission Line
by Bill Coleman <aa4lr@arrl.net>
- 36) [121814] Re: Open Wire Transmission Line
by Bill Coleman <aa4lr@arrl.net>
- 37) [121815] FS: OHR-400
by "Jeff Poulin" <jpoulin@erols.com>
- 38) [121816] Re: Open Wire Transmission Line
by Bill Coleman <aa4lr@arrl.net>
- 39) [121817] Re: test message w/DTX
by "DTX" <dtx@wood.tzo.com>
- 40) [121818] Old Geeer Relives the Past
by "Bill Jones" <kd7s@psnw.com>
- 41) [121819] RE: Open Wire Transmission Line
by "Ed Tanton" <n4xy@earthlink.net>
- 42) [121820] Deal on Caron's "Antenna Impedence Matching"
by Steve Bauder <sbauder@wwt.net>
- 43) [121821] EZNEC > Gamma Matches

by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
44) [121822] Bizarre problem solved!
by "V Cortina" <vcortina@hvc.rr.com>
45) [121823] Re: Deal on Caron's "Antenna Impedence Matching"
by "George, W5YR" <w5yr@att.net>
46) [121824] FS K2
by bob parks <rob3ert@yahoo.com>
47) [121825] RG-316
by Jake Brodsky <frussle@erols.com>
48) [121826] Re: Binaural Receiver
by Wes Clopton <W3ERU@DRIX.NET>
49) [121827] Tiny Tornado Kits
by MITCHELLRI@aol.com
50) [121828] Re: PSK31 is not all it's cracked up to be
by trandall@idsi.net
51) [121829] Re: Tiny Tornado Kits
by W2AGN <w2agn@pobox.com>
52) [121830] Open Wire Transmission Line
by W2SH@aol.com
53) [121831] Re: Binaural Receiver
by David Hinerman <WD8CIV@worldnet.att.net>
54) [121832] \$3 sealed 12V 2ah batts
by Adam Nathanson <adamn@n8software.com>
55) [121833] Crystals for sale
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
56) [121834] crystals for sale
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
57) [121835] 30m EU Pile-up -- What a HOOT! :)
by "Adrian Weiss" <aweiss@usd.edu>
58) [121836] info needed on yaesu
by N4SKS@cs.com
59) [121837] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine
by Bob Welch <p326@earthlink.net>
60) [121838] Re: Deal on Caron's "Antenna Impedence Matching"
by Steve Bauder <sbauder@wwt.net>
61) [121839] Joel's mobile Truck.... continued
by hamjoel@juno.com
62) [121840] Re: [fpqrp] Joel's mobile Truck.... continued
by "Brian" <brian@iquest.net>
63) [121841] Re: 30m EU Pile-up -- What a HOOT! :)
by Dave Gingrich K9DC <gingrich2@dcg.org>
64) [121842] RE: Joel's mobile Truck.... continued
by Mark Schoonover <schoon@amgt.com>
65) [121843] K1 Filter Boards for sale
by Tim ORourke <TORourke@KaiserFT.com>
66) [121844] K1 2 band filter boards
by Tim ORourke <TORourke@KaiserFT.com>
67) [121845] Re: Tiny Tornado Kits

- by "Brice D. Hornback" <bdh@cyberbound.net>
- 68) [121846] re: FS K2 ---Sold!
by bob parks <rob3ert@yahoo.com>
- 69) [121847] TEK 453 Frequency Calibration ?
by "blinn" <blinn@smgazette.com>
- 70) [121848] Brice & Tornado II kits
by MITCHELLRI@aol.com
- 71) [121849] Re: Your mobile Truck
by KKANALZ@prodigy.net
- 72) [121850] Parallel Feed Line: HB vs Commercial
by "ss lyon" <sslyon@megalink.net>
- 73) [121851] Re: Boots for my FT-817
by Bill ROWLETT <kc4atu@yahoo.com>
- 74) [121852] Re: [fpqrp] Joel's mobile Truck.... continued
by "Philip L. Carter" <pcarter@gcfn.org>
- 75) [121853] RE: Pc Boards Got em ! but No Knowledge
by Bill Coleman <aa4lr@arrl.net>
- 76) [121854] Re: Boots for my FT-817
by brickle <brickle@pobox.com>
- 77) [121855] Re: Pioneer 10
by Bill Coleman <aa4lr@arrl.net>
- 78) [121856] RE: Boots for my FT-817
by "Kory Hamzeh" <kory@avatar.com>
- 79) [121857] RE: [QRPP-I] Re: WQ3RP DE K8XF
by kb1dxc <kb1dxc@discovernet.net>

Date: Sun, 10 Mar 2002 11:08:01 -0600
From: "George, W5YR" <w5yr@att.net>
To: ku4yp@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121779] Re: PSK31 is not all it's cracked up to be
Message-ID: <3C8B92F1.C3EF738F@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike makes a good point about the effect of stronger signals washing the weaker ones down the drain, as it were.

Unfortunately, much of the popularity of PSK31 has come from the comparative simplicity of getting a station working on the mode and the near zero cost. I say unfortunately because the lack of receiving equipment adequate to handle adjacent strong signals has made the experience Mike reports the norm rather than the exception. The plus side is that almost any SSB radio "can" be used for PSK31, though with varying degrees of success.

The "engineering" answer to this problem is like that for any other interference problem: remove the effects of the interfering signal as early in the receiver chain as possible by (a) employing appropriate filter(s) and (b) using a receiver in which the AGC is not impacted by signals outside the final IF bandwidth.

On some radios, this goal is obtained when CW bandwidth filters can be used in SSB mode and when the receiver AGC does not affect signals outside the CW filter passband. On most radios, however, especially the older sets, operation is possible only with wide SSB filters and an AGC system that is controlled by the strongest signal within the passband.

The newer receivers, such as the Kachina 505 DSP and the Icom 756PRO and PRO II are relatively immune to these effects because (a) very narrow filter passbands can be used in SSB mode and (b) the combination of analog AGC and digital AGC is such that effective AGC action takes place only within the final IF passband.

These receivers put PSK31 in an entirely different environment, especially when used with programs like MixW which provide almost total remote control of the radio. For example, I use a macro that retunes the PRO to place the desired signal in the center of the SSB DSP filter passband (1500 Hz) and then selects a 50-Hz bandwidth. Since AGC is effective only within that bandwidth, the selected signal essentially is all that is seen and copied.

As receiver designs progress to this architecture and the older equipment fades out in time, we can expect PSK31 and other digital modes to become even more attractive and interesting to operate. True, keyboarding or "finger-talking" is not for everyone, but it is another dimension to amateur radio that many have found to be a fun activity that has renewed their interest in the hobby. Adequate receiving gear and the requisite clean transmitted signal are mandatory, however, for maximum benefit.

73/72/00, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

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KU4YP wrote:

>
> the only "problem" i have found with psk31 is the fact that a strong
> adjacent signals will make all other signals low or un-readable. i guess
> kind of like a "capture effect," although that may be the wrong term for

> this.
>

Date: Sun, 10 Mar 2002 18:17:35 -0600
From: Dave Sjolín <sjolin@swbell.net>
To: kb9zuv@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121780] Re: multiband dipole question
Message-ID: <3C8BF79E.FC482432@swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Gary Lee wrote:

>
> Want to put up a multiband dipole. Have seen one made of 5-conductor rotor
> wire. However, can't find this anywhere. Can use separate wires, but
> don't know what to use for spacers.
>
> Any suggestions helpful.

Spacers? Gary if you want to coax feed a multi-band dipole made of five conductor rotor cable, then forget spacers. You are going to need to fan the different legs of the antenna in different directions. The greater the angle between dipoles the less trouble you will have.

Don't expect to be able to cut the various conductor lengths according to the ARRL Handbook and have the antenna work as planned. There is going to be too much interaction between the individual legs.

It would probably be simpler to use an 88 foot wire feed with ladder line to a balun, then coax, or a G5RV than the fan dipole.

If you do go the fan dipole route, remember that you don't need a 15 meter dipole. The 40 meter leg will work better here than the fifteen will. Also if you have an 80 meter leg, you can use it for 30 meters as well. I think you could use it or the 40 meter leg on 17 meters.

Good luck. The tree I was planning to use as the mid support for a 20 meter EDZ this Spring suffered storm damage Friday night. Lost at least five feet of the top of the tree from 50 mph winds. The tree is dead. Guess I should have assumed it would be good for something. :-)

73 de Dave, N0IT

Date: Sun, 10 Mar 2002 17:31:50 -0700
From: "Rod N0RC" <rod@n0rc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>,
"cqc-1" <CQCLIST@yahooogroups.com>,
Subject: [121781] DMNS <-> Space shuttle ShuttleTONIGHT!!
Message-ID: <001d01c1c894\$23269290\$6401a8c0@greyrock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just heard on Channel 4 news that there is a sked tonight for Kids at Denver Museum of Nature and Science, with the Space shuttle @ 9:15pm MST, 0415z. The report said it would be via Satellite, could she have meant Amateur Radio?

Can't find info on the ARISS or DMNS web sites, does anybody have any info on this? Might be fun to listen in.

73, Rod N0RC
Ft Collins, CO

Date: Sun, 10 Mar 2002 16:37:06 -0800
From: "Kevin Nathan" <k7rx@attbi.com>
To: <qrp-1@lehigh.edu>
Subject: [121782] FS: Nc-20
Message-ID: <01d301c1c894\$df36a560\$6501a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I am going to put up my NC-20 for sale. It just hasn't worked out for me in terms of allowing me hf qso's when on the road in hotel rooms and the like. Not a good enough antenna or quite enough power I suspect.

It is in great condition with the TCK-4 installed and the 10K pot modification along with other improvements. Asking \$125 shipped in CONUS.

Thanks much and 72.

Kevin, K7RX :)

Date: Sun, 10 Mar 2002 16:41:19 -0800
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121783] OFF Topic - post / Ham Radio on TV
Message-ID: <003701c1c895\$76808120\$af25cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I tried to post this the first time at 4:12pm Pacific time for some reason it didn't get delivered by the reflector. So here it goes again --- time being critical, the item about which I wrote will be on television about one-hour from now (as I write this at 4:40pm pst) why the delay on the previous posts?????

Very off topic, but if you live on the West Coast, tonight's NBC Nightly News is planning to air a report on the Oregon School Kids who spoke with the International Space Station Astronauts last Wednesday via Amateur Radio station K7RAT (QRO). The kids attend Deep Creek School, and the hams who set up the station at the school are members of the Boring, Oregon, (actual name!) Amateur Radio Club.

Most West Coast cities will carry the program at 5:30pm PST, but the NBC affiliate in Portland, OR, KGW-TV is planning on airing the newscast at 6pm.

NBC Nightly News was pre-empted in the East and Midwest by Basketball, but if you have either Direct TV or Echostar, live anywhere in the "satellite footprint" and subscribe to the West Coast "local TV stations' package," look for KNBC in Los Angeles at 530pm, LA Time.....

72/73 de alan

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

Date: Sun, 10 Mar 2002 19:36:14 -0500
From: "AI2Q Alex" <ai2q@adelphia.net>
To: <kd3em@velocity.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [121784] RE: Woodpecker on 15 meters!
Message-ID: <000301c1c894\$c14abbe0\$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The derved woodpecker has also been blasting through on both the CW and phone ends of 80 meters for the past six weeks or more. My 80-M array picks it up from the NE. I've heard it late mornings and in the evenings here on the East coast.

These guys have no business operating in the ham bands.

Back in the mid-1970s, when the original Russian woodpecker reared its head, there was a rumor that a keyer set to the same rep rate would cause the woodpecker op to go nutso! The woodpecker I'm hearing on 80 meters has a buzzer pulse sound to it, but maybe the same technique would apply. Or, would that be "intentional QRM?"

Just some thoughts and observations. I think I'll call the ARRL about it this week.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of David Gilson
Sent: Sunday, March 10, 2002 6:44 PM
To: Low Power Amateur Radio Discussion
Subject: Woodpecker on 15 meters!
Importance: High

I get the strongest signal on 21.031 MHZ with the beam heading at 45 DEG.
My location is 41 deg 7' 59" north

80 deg 5' 0" west

Maybe we all can work together and find this station and put them out of business for good!.

Thank You all for your time

de Dave KD3EM

Date: Sun, 10 Mar 2002 19:11:16 -0600
From: "W5TB" <w5tb@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121785] FS Ten Tec Omni V Fox killer!
Message-ID: <00af01c1c899\$a52e21e0\$0200a8c0@alt1.tx.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable

Ten Tec Omni V. Serial 04A10569 =96 latest ten-tec firmware (version =
5.1) . Includes filters in 2.4, 500 & 250 kHz 6MHz IF slots. 2.4 kHz =
filter in the 9 MHz IF. Cosmetically about a 9 =96 small (not thru =
paint) scratch on top case. Works great, terrific CW and SSB rig which =
has nabbed 37 out of 40 foxii and over 100 countries this year=96 see =
eham reviews: <http://www.eham.net/reviews/detail/731>.=20

Non-smoking environment. Manual. I have recently upgraded to an Omni VI+ =
and this wonderful rig needs a good home. \$750 shipped within =
continental US.

72, 73, oo T.E. 'Doc' Drake, W5TB
Arlington, Texas
FISTS # 5365 QRPARCI # 3532 ARRL Life Member K1 #181 K2#1617=20

Date: Sun, 10 Mar 2002 17:51:35 -0800
From: "Alan Kaul" <alan.kaul@worldnet.att.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121786] Re: OFF Topic - post / Ham Radio on TV
Message-ID: <000801c1c89f\$5a559d00\$af25cd18@charterpipeline.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Never mind....

It looks as if basketball went long on the West Coast also, shortening the
newscast to 20-minutes. And one of the items that seems to have been dropped

was the Oregon Kids' Chat with the Space Station.

Sorry for the false alarm earlier ...

Alan Kaul, W6RCL, LaCanada, CA
w6rcl@amsat.org
<http://home.att.net/~alan.kaul/index.html>

Date: Sun, 10 Mar 2002 21:17:20 -0500
From: Bob Mason <skydive@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [121787] Heavy duty Pixie-2
Message-ID: <NFBBLFFOILIDGGKFDNEBKPFCCAA.skydive@usa.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

When some 230 pound person (me) recently sat down on a crushed an altoid pixie in my coat pocket, I decided that everyone had the wrong idea. The Pixie-2 is meant to be a heavy duty nike-proof radio. Thus the AN/PIXIE-2 complete with roll-bars/carrying handles, and hernia sized RIT knob. Take a look at: <http://web.infoave.net/~masoste/wb8cac/qrp.htm> for ideas on how to make your pixie last forever!

Bob WB8CAC

CW forever... QRP slightly longer

Date: Sun, 10 Mar 2002 21:23:59 -0500
From: Bob Mason <skydive@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [121788] more on AN/PIXIE-2
Message-ID: <NFBBLFFOILIDGGKFDNEBCEPGCCAA.skydive@usa.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

Before the hate mail starts, the word Nike in the previous heavy duty pixie post was supposed to be "Nuke" thus: nuke-proof. Mi sbeling ain't sew gud know moar

Bob

Date: Sun, 10 Mar 2002 20:53:34 -0600
From: "George, W5YR" <w5yr@att.net>
To: ai2q@adelphia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121789] Re: Woodpecker on 15 meters!
Message-ID: <3C8C1C2E.BE4AE84A@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

No rumor, Alex . . .

Back in my early manhood, spent in such sin and debauchery as QRO operation, I once ran a Drake C-Line station with a Heathkit SB-220 linear connected to a 3-element beam.

I observed the Russian Woodpecker one evening on 20 meters with a scope and saw that he was transmitting a code consisting of four pulses to a group with each group missing from 0 to as many as 3 pulses in various positions.

I fired up the rig on 20, pointed the beam due North over the pole, and played with the keyer until the dots were exactly synched with the Woodpecker pulses.

I then fired off a couple of short blasts. He stopped. I tuned up the band and he had moved up about 5 KHz. I zeroed him again and fired off another couple of shots. He stopped.

Well, this went on for about 10 minutes until either he tired of the game or his shift ended or whatever. He went off the air and I didn't hear him again that entire evening!

I don't have a legal reading, but my actions were consistent with evaluating the performance and tuning of my amplifier by using a pulsed test signal, etc.

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735

Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

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AI2Q Alex wrote:

>

> Back in the mid-1970s, when the original Russian woodpecker reared its head,
> there was a rumor that a keyer set to the same rep rate would cause the
> woodpecker op to go nuts! The woodpecker I'm hearing on 80 meters has a
> buzzy pulse sound to it, but maybe the same technique would apply. Or,
> would that be "intentional QRM?"

Date: Mon, 11 Mar 2002 03:11:59 +0000
From: "John Kirk" <ve6xt@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [121790] Capacitor & Transistor Identification
Message-ID: <F231vH1xkt30q9yDzpD00001a5c@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I see lots of responses on the "C" half of your question, but not too many on the "T" part:

I use the x-ref on www.nteinc.com

I like it because NTE have no ties to 1 manufacturer, so a pretty comprehensive cross section of what's out there is represented. It'll give you a pretty good idea of what a device is capable of, by what NTE device replaces it.

I figure if NTE have never heard of it, it doesn't belong in my junk box.

Of course, if you're talking house numbered devices, you have no alternative but to build up test fixtures, and maybe sacrifice a few to science.

If anyone else out there knows of a web site for transistor specs that

- a) isn't married to one vendor, and
- b) saves us the step of a cross to NTE

I, along with many others on the list would appreciate a URL.

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>.

Date: Mon, 11 Mar 2002 04:20:33
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [121791] Elecraft K1 Transceiver: A Lean, Mean CW Machine
Message-ID: <F140jJik4hJ4BmkivKI00012da4@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

A TRANSCEIVER FOR BACKPACKING AND BEYOND

Imagine tossing a contest-grade rig into a backpack! That s exactly what I did this past summer. I needed a rig for a long backpacking trek along the Pacific Northwest Trail from the northeastern corner of Glacier National Park in Montana to the Idaho panhandle. For most of the trip I would be out of range of VHF and UHF repeaters and cellular telephone networks. I wanted multi-band coverage so I could reliably pass formal message traffic to friends and family from a variety of trail locations and under varying propagation conditions. I thought of the Elecraft K1, a lean, mean multi-band HF transceiver kit optimized for pure CW operation, yet it s a light-weight power miser and small enough to carry in my backpack all day long, day after day. The K1 would also serve as an excellent stand-by for use during a disaster or crisis to get a message through when all else fails.

A BUILDER S JOY

I placed my order with Elecraft. The K1 serial number 833 kit arrived ahead of schedule before I had cleaned out the shack to welcome it! I chose to do the inventory piecemeal, only opening the bags relevant to one stage at a time.

Elecraft engineers have gone overboard to ease the path for kit builders. The circuit boards are roomy, well-labeled and durable. The instructions are clear and explicit, with lots of illustrations - photographs of many parts accompany the parts lists. Resistors are mounted on ladder strings in the exact order they are to be installed. Many potential pitfalls are anticipated. Where alignment is important, instructions for installation include checking and double-checking before moving on to a stage where adjustments would be difficult. If you ve never had the pleasure of building your own rig from a kit, the K1 is a great one to get you going.

THE BASIC K1

For the long hike I used the basic K1 with a two-band module. I order my 2-band module configured for 40 and 80 meters. The module can be ordered for any two of the amateur 80, 40, 30, 20, 17 or 15 meter bands. Builders

can decide whether to configure the K1 for 80-kHz or 150-kHz range within each band. I chose the wider range, which actually turned out to be 172 kHz. I used the rig nightly to pass formal traffic through the Idaho Montana Net on 3647 kHz, the British Columbia Emergency Net on 3652 kHz and the Seventh Region net on 7048 kHz. I also arranged schedules to meet my wife Margaret, KD7CEL, on 40 meters. Since I hadn't installed the optional internal antenna tuner for my summer hike, I erected separate half-wavelength inverted vee dipoles for the 80 and 40 meter bands. I usually erected the antennas inverted vee style, first lobbing a fairly large rock over a tree branch which was attached to military surplus parachute cord with a knot which I invented, called the Grapevine Noose. This very secure knot uses half of a grapevine or double fishermen's bend to lock the noose.

AN ENHANCED K1

My K1 is now enhanced with some options, including the four-band module, the noise blanker, the internal automatic antenna tuner and the wide-range tilt stand. The standard configuration of the four-band module is for 40, 30, 20, and a choice between 17 or 15 meters. The components for all five bands arrive with each four-band module.

Because of space and component limitations, the KFL1-4 four-band module includes two low-pass filters, which are designed for adjacent amateur bands. A band which is the second harmonic of a lower band cannot share the same filter with that lower band. So, for instance, if a builder wishes to include the 80-meter band on the four-band module, another band cannot share that filter, so only three total bands could be accommodated.

My K1 now sports a KNB1 Noise Blanker. The Pacific Northwest Trail route took me far from power grid, ignition and other artificial noise sources, so I didn't need the KNB1 Noise Blanker for backpacking, but for other uses including emergency communications using generator power, I thought it might be useful.

I thought that the KBT1 Internal Battery Option would provide added convenience of dispensing with an external battery pack for backpacking. Installing the recessed on/off switch took some fancy finger-work, but I managed the assembly of the KBT1 without significant problems. I decided in the end, however, to dispense with the KBT1. See the "Quibbles" section for details.

The Wide-Range Tilt Stand seemed like a weighty luxury for through-hike backpacking, but I wanted to try it out for possible use on shorter trips.

Finally, the internal KAT1 Automatic Antenna Tuner seemed an ideal way to simplify the antenna part of operating a multi-band backpacking radio.

I carried light-weight earphones for occasions when I needed to operate without keeping the neighborhood wildlife awake. In spite of the fact that it consumes more current, I prefer using a speaker on a hiking trip. The speaker allows me to listen while doing camping chores, and in practice I didn't use earphones with my K1 on my long hike.

HELP FROM ELECRAFT

After building the K1, error message E42 told me that the VFO wasn't oscillating. The failure was caused by my swapping one RF choke for another. I had confused 33-microhenry (orange-orange-black) with a 22-microhenry choke (red-red-black). I didn't catch my error until my e-mail plea to Elecraft elicited a prompt and detailed reply from Gary Surrency, the Dr. Fix-It at Elecraft. Gary's first sentence read, "You may have installed the wrong inductor at RFC1." That cured the problem. I was impressed.

When I built my K1, its operating frequency drifted more than the specified <200 Hz/hour after a 5-minute warm-up at room temperature. Gary Surrency again stepped in to help. My rig now has replacement varactor diodes and a new 1200-pF polystyrene capacitor in the oscillator circuit, and the drift problem is solved.

OPERATING THE K1

The finished K1 is one beautiful rig. Like its big cousin K2, the K1 looks snazzy enough to reside in a living room. The impressive Owner's Manual includes a helpful chapter with operating instructions as well as a one-page quick-reference sheet. A more detailed double-sided laminated quick reference two-card set, the Elecraft K1 Vade Mecum, is available for \$6.00 + \$1.00 shipping from Kairos Research, 853 Alder Street, Blaine, WA 98230-8030.

I use a mini keyer paddle made by G4ZPY. I've removed the heavy magnetic base from the keyer paddle and substituted Velcro, reducing the total weight while allowing me to use the K1 as the paddle stabilizer. The paddle is further stabilized with a 3-mm kernmantel perlon cord tied with a Grapevine Noose cinched tightly around the K1 cabinet.

Another manufacturer has produced a keyer paddle especially for the K1, which mounts on the Wide-Range Tilt Stand. The BP-K1 is available for \$45.50 + \$3.00 shipping from The Paddlette Company, P.O. Box 6036, Edmonds, WA 98026 <http://www.paddlette.com>

The LCD display serves varied functions. It reports the operating frequency, S-meter reading, input voltage, and with the automatic antenna tuner installed, SWR as well. The same display gives all the feedback needed to operate the main menu and the automatic antenna tuner menu.

The K1 was obviously designed by and for serious CW operators:

The sidetone pitch or spot function is a breeze to use for quickly zero-beating with another station. The sidetone and offset and spot tone can be adjusted between 400 and 800 Hz. Its volume is determined both by a software adjustment and the AF gain setting.

Most operators will set the iambic mode to A or B and then leave it alone, but it's great to have that choice. Most rigs designed for portable operation offer only one iambic mode. The now-discontinued DSW series by Small Wonder Labs uses iambic mode B, as does the Yaesu FT-817. The SGC SG-2020 and SG-2020 ADSP operate in iambic mode A.

The iambic keyer speed can be adjusted to any integer between 8 and 50 words per minute on the fly with front panel buttons.

Two different CW memories are programmable and its beacon-mode repeat function can be programmed to pause for any integer second between zero and 255 seconds.

The solid state transmit/receive circuit is smooth, with adjustable delay from zero to 900 milliseconds. Mine is normally set for zero delay or full break-in. I don't even notice it while operating, which is the way it should be.

The combination of RIT and XIT is very helpful for just about any kind of operation, but especially traffic nets and DXing. The RIT/XIT range can be increased or decreased by the builder by installing a higher or lower-value C7 capacitor.

The three DSP filters are individually programmable for bandwidths between 200 and 850 Hz, making fine QRM-fighting tools.

When receiving a very strong signal, I often turn on the built-in -14 dB attenuator and advance the AF gain for low-noise reception. It works like a one-step RF gain control.

OPTIONAL TILT STAND

The Wide-Range Tilt Stand configured with its shorter upright stays is a wonderful accessory for desktop operation. I should have taken the cleverly-designed the tilt stand with its longer upright stays along on my hike. Trail-side operating is almost always awkward. The ability to view and operate the rig from any conceivable angle makes the tilt stand weight worthwhile. I added some heat-shrink to the back arm of the tilt stand to protect the K1 surface when I use it in the shack. From now on, the tilt stand will definitely accompany my K1 on every trip.

OPTIONAL NOISE BLANKER

The KNB1 Noise Blanker can be turned off or it can be activated at two different threshold levels, depending on the severity of the interfering pulse noise. The higher threshold can be increased further by substituting a green LED (supplied with the kit) for the 1N4148 diode at D2.

OPTIONAL INTERNAL ANTENNA TUNER

The optional internal KAT1 Automatic Antenna Tuner is a great addition to this diminutive rig. It allows for a lot of flexibility when planning the antenna part of an HF backpacking station. Plug in just about any antenna that's convenient, tune on or near the intended operating frequency, then activate the tuner. After some rapid relay chatter, the antenna impedance is matched with the radio, and the resulting SWR is automatically displayed.

Since it uses latching relays, the tuner consumes no extra power once it is adjusted to the operating frequency. With the KAT1 installed, SWR can also be viewed from the front panel LCD without operating the tuner. I've now acquired a BNC-to-dual-binding-posts adapter. Now I can use the K1 with a end-fed 17.5-m wire and a counter-poise made of five pairs of small-gauge speaker wire each 3 meters long soldered together on one end horse-tail fashion to couple capacitively to the ground. That way, I'll save a lot of weight now taken up by two dipoles and coax.

BUILT-IN FUN

Many kit radios are more fun to build than to operate. This one is easy to build and a blast to operate. Although it's well-designed for trail use, I find that I turn it on frequently in the shack as well for rag-chewing, contesting or traffic net operation. I also like to use it to monitor the NCDXF/IARU beacon network on 14.100 MHz and 21.150 MHz. My entire K1 station including extra batteries, tilt stand and antenna fits nicely into a 4-L Rubbermaid plastic box and weighs 2.05 kilograms or 4.5 pounds, so it's definitely in the backpacker class.

QUIBBLES

I was disappointed with the KBT1 Internal Battery Option, which was not well designed for convenient cell replacement in the field. The smaller KBT1 speaker sounds just fine, but it is held against the cabinet top only by friction. When the cabinet top is opened to change AA cells, the speaker becomes a loose item which is awkward to handle in the shack, let alone inside a flapping tent. I decided to disassemble the KBT1 option before leaving on my backpacking trip and I installed the standard cabinet top with its well-mounted speaker. Without the KBT1 installed, the K1 is a solid, well-engineered radio. My power supply is a simple 8-AA cell holder from RadioShack. It worked fine on the Pacific Northwest Trail. Loaded with

eight fresh lithium cells, it needed only one replacement during more than two weeks of nightly operation, a fine testimony to the low-current drain of this transceiver.

Unlike the K2, which allows reception on either sideband, the K1 receiver is configured to detect the lower sideband on all bands. That's fine for 80-m and 40-m. On those bands, cross-mode communications are possible with SSB stations which are using the standard LSB mode within the frequency range of the K1. For example, The Canadian Aurora Net operates on 7055 kHz LSB Monday through Saturday starting at 0230Z and the Transprovincial Net starts on the same frequency daily LSB at 1500Z. These offer convenient cross-mode operating with for K1 operators. However, on 20-m and 17-m, where USB is the standard SSB mode, routine cross-mode communication is not practical with the K1.

Since the K1 incorporates a Colpitts varactor diode VFO circuit with a 10-turn potentiometer for frequency control, band coverage is limited. The high-end Elecraft K2, the simpler, now-discontinued Small Wonder Labs DSW rigs, the Yaesu-Vertex FT-817 and the SGC SG-2020 and SG-2020 ADSP cover the whole amateur band rather than just 80-kHz or 150-kHz segments. All of those other rigs except the K2 have other disadvantages, however, such as lack of a choice of iambic keying modes, no keyer memory, and no provision for an internal antenna tuner.

BOTTOM LINE

The K1 is the best genuine backpacker HF rig now on the market. Except for the internal battery kit, all of its options are useful and well-designed. The basic rig is packed with lots of excellent operating features. If the K1 had a digital oscillator which allowed it to cover the entire amateur band using either sideband, it would be a spectacular rig, although more pricey and perhaps not so energy efficient.

K1 Transceiver kit including one 2-band filter module kit, custom-ordered for any two amateur bands between 80 and 15 meters. \$279

K1-4 Transceiver kit including one 4-band filter module kit, covering 40, 30, 20 and either 17 or 15 meters at the builder's option

\$349

KFL1-4 additional 4-band filter module kit \$129

KFL1 additional 2-band filter module kit \$59

KTS1 Wide-Range Tilt Stand \$35

KNB1 Noise Blanker kit \$35

KAT1 Automatic Antenna Tuner kit \$89

KBT1 Internal Battery kit \$44

Shipping and Handling (variable according to which options are ordered) \$6 to \$14

Elecraft, P.O. Box 69, Aptos, CA 95001-0069, (831) 662-8345

<http://www.elecraft.com>

72, Bruce Prior N7RR

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Sun, 10 Mar 2002 22:03:04 -0800 (PST)
From: Jack WsixABC <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [121792] K5HK/MM QRPP CQing from Pacific on 7.039 6:03UTC
Message-ID: <20020311060304.79429.qmail@web14204.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Title says it all 5-7-9

=====
Website: <http://home.pacbell.net/friday2k>
QRP-L #2193 SOC#165 K2#1272 K1#37 QRPP-I #176

Do You Yahoo!?
Try FREE Yahoo! Mail - the world's greatest free email!
<http://mail.yahoo.com/>

Date: Mon, 11 Mar 2002 01:05:46 +0000
From: "Rob Matherly" <kc0bom@arrl.net>
To: qrp-L@lehigh.edu
Subject: [121793] Re: Heavy duty Pixie-2
Message-ID: <200203110658.g2B6w5F15329@mail.iowasocean.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

On Sun, 10 Mar 2002 21:17:20 -0500, Bob Mason wrote:

> When some 230 pound person (me) recently sat down on a crushed an altoid
> pixie in my coat pocket, I decided that everyone had the wrong idea. The

> Pixie-2 is meant to be a heavy duty nuke-proof radio. Thus the AN/PIXIE-2
> complete with roll-bars/carrying handles, and hernia sized RIT knob.
> Take a look at: <http://web.infoave.net/~masoste/wb8cac/qrp.htm> for ideas
> on how to make your pixie last forever!

> Bob WB8CAC

> CW forever... QRP slightly longer

Now that is one heck of a beefed-up QRP rig! :^)

-- Arachne V1.70;rev.3, NON-COMMERCIAL copy, <http://arachne.cz/>

Date: Mon, 11 Mar 2002 02:35:50 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: Mike Zbrozek <k8xf@gte.net>
Cc: Joe Mikuckis <k3chp@erols.com>, Bill Harding <k4ahk@ix.netcom.com>,
Mike Czuhajewski <wa8mcq@comcast.net>,
Subject: [121794] Re: WQ3RP DE K8XF
Message-ID: <20020311015836.G4284-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Mike,

I am not going to be able to arrange anything until some time next month
for sure.

There is a big QRP event in Timonium Maryland on the 6th of April,
ATLANTICON. See <[Http://www.njqrp.org/Atlanticon](http://www.njqrp.org/Atlanticon)> for more details.

I hope to meet with some of the Maryland Milliwatt Club Members then.

We have been "In-Active for almost two years now, with an occasional
meeting of a few of us now and then. Most recently the NOVAQRP Club
meeting on March 9th. What a memorable event. Good food, good Friends,
and lots of QRP Stuff. They even have a new Potential Ham and QRPer by
the name of "Rachel Carter", the lovely Daughter of John Carter, N4UY.

We look forward to adding both Rachel and her Dad as Maryland
Milliwatters.

I will see if I can get Joe K3CHP to set up a schedule with you. Joe is
Moving into that Unknown Territory, Known as DELEWARE, in the month of
April. He will of Course be QRP, and QSL's 100%. I will authorize him

to use the Club Callsign for The Month of APRIL.

He will be "The 1st Official "MARYLAND MILLIWATT CLUB DE-XPEDITION"

This is a real Special Event, in that All who read QRP-L know that there has been much talk lately about the Existence or NOT of the State of Delaware, and it's Alleged Ham Radio Operator Population.

I have not had a chance to talk to Joe about this Event Yet, but i am pretty sure that he will be up for it as soon as he gets moved into his new residence.

For those who do not know Joe, he has been a Member of QRP ARCI from the old days. I remember him most for his Article in The QRP Quarterly with the "SOLAR POWERED ARGONAUT 509".

Please try to work Joe During APRIL. We do not want him to be swallowed up in the "Black Holes of Delaware" :^}

This is NOT an APRIL FOOL's Message. Although we may be fools to think that we can pull this off.

I will have to got down stairs and dig up the "FIST Number for WQ3RP" for Joe to Use Next Month.

I will leave it to JOE to Set the Schedule and Decide on the QSL's. Maybe some can help him with a Design, and use the QRP QSL Program to make them.

I am sorry but I forget the CALLsign, I would have to go off line to check my computer. Heck, all you guys know which one I mean. "THE QSL Program, from 8 Land QRP-L Member :^} Check N4BP site he will have it.

O.K. BILL,

There is the plan. We do not Guarantee a QSO/QSL from DEL, but you will at least have a better chance than last week,month,or year.

Who knows we may be the First and ONLY QRP Club to have a "Corporate Resident Member Representing the State of Delaware". Dare we INC. MDMW in DE??? :^}

OTOH we would have to change the name to "DE MILLIWATT CLUB" or "De mW" :^}

QRPp Dx Tu (c) 2002 :^}

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Collector of Quartz Crystals and Telegraph Keys.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

On Sat, 9 Mar 2002, Mike Zbrozek wrote:

>
>
> Hi George -
>
> Tnx for the reply.
>
> I am located in Florida nw of Tampa.
> Can get on 80-10. When and where can you arrange a sked?
>
> Awaiting your next message...
>
>
> Tnx and
> 73,
>
> Mike, K8XF
> Fists 6773
>
>
> ----- Original Message -----
> From: "George Gingell" <k3tks@u1.abs.net>
> To: "Mike Zbrozek" <k8xf@gte.net>
> Sent: Saturday, March 09, 2002 12:17 AM
> Subject: Re: WQ3RP DE K8XF
>

>
> > Hi Mike,
> >
> > I also have two Fists Numbers, One Personal and one for WQ3RP.
> >
> > The problem is I don't have a rig set up right now. I had to sell
> most
> > this past Summer to cover some personal expenses. Then Lightning
> destroyed
> > my Antennas and The Trees holding them up. I have not had a chance
> to
> > replace the Antennas yet. I am hoping to find a bit of time this
> Spring
> > to get things back together.
> >
> > I do have one rig left that i can press into service when I get the
> > Antennas back up.
> >
> > My Phone number and address are in the sig line.
> >
> > Where are you located? What Bands Can you work? I generally prefer
> 40 CW.
> >
> > The TT Argo Does not have the WARC Bands. Gee, I miss the QRP + and
> K2
> > already.
> >
> > The Big Atlanticon Event is coming up next month. I might see if i
> can get
> > one or two of the other Maryland Milliwatt Boys to work a sked with
> you.
> >
> > We have not done a Contest or QRP Expedition in a while. We have
> one lad
> > moving to DE in April. I could authorize him to use the Club Call
> for a
> > DE DX EVENT.
> >
> > I will talk it over with the lads at Atlanticon.
> >
> > Keep in touch.
> >
> > When emailing me, use <k3tks@abs.net> That always works..
> >
> >
> >
> >
> > Sir George, The First :^}

> >
 > > 72 ES
 > > QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
 > > Former QRP A.R.C.I. Net Manager and Board of Director Member.
 > > Gingell & Company, Ltd. Small Business Telephone Systems
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 > 20904-7117
 > > Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR
 > #1
 > > Maryland Milliwatt Club Founder and Trustee of Club Station -
 > WQ3RP -
 > > Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904
 > QRPea.A.
 > >
 > > Collector of Quartz Crystals and Telegraph Keys.
 > >
 > > "72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM
 > >
 > >
 > > On Fri, 8 Mar 2002, Mike Zbrozek wrote:
 > >
 > > > Hello -
 > > >
 > > > I am working on a fists award and could use the point from your
 > club.
 > > > Can you arrange a sked?
 > > > I hope this msg gets thru. Its my second try.
 > > >
 > > > 73
 > > > Mike, K8XF
 > > > F-6773
 > > >
 > > >
 > > >
 > > >
 > >
 > >
 >
 >

Date: Mon, 11 Mar 2002 06:26:47 -0500
 From: Parker Buckley <buckley@iapdatacom.net>
 To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
 Subject: [121795] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine

Message-ID: <3C8C9477.258499C8@iapdatacom.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Let's hear it from the Sierra owners! This could be fun. (And maybe help me decide which to build)

Parker/WD8JOL

Date: Mon, 11 Mar 2002 07:35:39 -0500
From: "George Osier" <gosier@twcnny.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [121796] Thanks all !!!!!
Message-ID: <000001c1c8f9\$8c078700\$0e714342@twcnny.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello !!!

Many thanks to all the nice comments !! Its been fun !!

2 new ones this weekend :

J88DR 700MW 10M
5H3RK700MW 10M

Totals at 122 :)

71s

George , N2JNZ /QRPP

Date: Mon, 11 Mar 2002 05:52:26 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: <qrp-l@lehigh.edu>
Subject: [121797] Boots for my FT-817
Message-ID: <Pine.LNX.4.33.0203110532070.1553-1000000@Daisy.dog>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

It seems appropriate to give the 817 a bit more power as we approach poor solar conditions. An outside amp that makes about 35 watts will keep me in any game where the other players are running 100 watts. For DX you hear as 549 (this happens a lot with poor conditions) will not hear QRP but can copy your 35 watts maybe.

Virgil Stamps K500R is putting together a kit that will cost \$100 which includes everything but the main chassis you buy at Radio Shack. You download the instructions to build this amp from his web page at:

<http://www.hfprojects.com/>

Here you can get all the info you need and you can get the money to Virgil 3 different ways. I just wrote a check and mailed it to him. You can also join a list that runs like QRP-L that will have help in the construction phase. You should join this list if you plan to build the kit.

The amp has a rf operated T/R relay and there are serious filters for all 6 bands from 160-10 meters. The FCC says a Ham can build one kit like this a year without the required FCC testing which is very expensive these days. What sold me is the amp uses push pull FET devices. I love push-pull design because it's a smart way to use devices. The 817 uses a push pull amp that covers 1.5 - 450 MHz!

So expect to hear more about this device in the months ahead. It will also work with a K1 or K2 radio driving it.

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
<http://www.zianet.com/k5di/>

Date: Mon, 11 Mar 2002 09:02:56 -0500
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-l@Lehigh.EDU
Subject: [121798] Re: SSB filter from cheap xtals
Message-ID: <p05100300b8b267e1afe8@[132.235.81.75]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

>>From: DONALD DORN <ddorn@cwis.net>
>>Reply-To: ddorn@cwis.net
>>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>>Subject: SSB filter from cheap xtals
>>Date: Sat, 09 Mar 2002 17:36:23 -0600
>>
>>Have any of you tried making a SSB IF filter out of microprocessor
>>xtals? I have made several pretty good filters for CW but am having
>>trouble with the wider bandwidth. The one I have been playing with today
>>is made from five closely matched 9 MHz xtals and 130 PF caps. The
>>bandwidth at the -6 dB points is about 1800 Hz and the sides are pretty
>>steep but the top has entirely too much ripple. I have tried a wide
>>range of terminating resistance but no success. Any suggestions?
>>73,
>>Don K5AAR

Hi Don,

I made a 160 meter transceiver
(<http://oak.cats.ohiou.edu/~weinfurt/160mrindex.html>) a few years
back and one of the things that comes to mind was the terminating
resistances for the filter made a heck of a difference. Try
different values with it and see if that makes a difference.

I used 5 mhz microprocessor crystals and measured the series
resistance, series resonance, etc. with a project that was in QST
(1980's?). The I finally got the passband right and the thing still
had some ripple, but if you calculate the ripple in terms of db, it
is probably looking a lot worse than it actually is. 3db difference
from peak of ripple to valley of ripple will not make any noticable
effect. I doubt if even 6 db would... but that is a matter of the
"ear of the beholder!"

73 es good luck on the project!

NS80

Date: Mon, 11 Mar 2002 07:12:49 -0700
From: Bruce Grubbs <mail@brucegrubbs.com>
To: buckley@iapdatacom.net,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [121799] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine
Message-ID: <5.1.0.14.0.20020311070453.00aa7848@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hello all,

I've owned both the K1 and Sierra. Although they are both fine rigs, I prefer the 4 band K1 with ATU for backpacking. It's the simplest, highest performance field setup I've used. For antennas, I use an 80 foot end-fed wire with 33 foot counterpoise, or if trees will be scarce (desert, above timberline) a fishing pole 20 meter vertical. A clip on top wire extends the vertical to 40 meters. I use an external NIMH AA battery pack, with 2 watt solar panel for charging. This setup performed superbly on a 9 day hike in the Wind River Range last summer.

The previous summer I used a Sierra on a 10 day hike in the Sierra Nevada. Although performance is comparable to the K1, the external manual ATU and band modules make it a larger and more cluttered setup. For me, the only remaining advantage of the Sierra is its all band capability. However, I now have the 4 band module for the K1 (40/30/20/15) and that does the job for me.

73

Bruce

Bruce Grubbs
N7CEE
Flagstaff, Arizona
DM45ef
mail@brucegrubbs.com
www.brucegrubbs.com

Date: Mon, 11 Mar 2002 08:26:30 -0600
From: Marcus C Leatham <leatham1@juno.com>
To: qrp-l@lehigh.edu
Subject: [121800] WTB: Ten Tec C/21 parts
Message-ID: <20020311.082631.1860.2.leatham1@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi,

I'm looking for Century/21 parts.

These are circuit board assemblies,
there is one of each in every Century/21:

I need two "Audio Pre-Amp, #80356"
and two "Audio Pwr Amp, #80357"

I can live without the 80357's but I'd
really love to find a couple of 80356's.

If anybody has a burned out Century/21
to get rid of, please discuss it with me.

Thanks, 72
Marcus KR5N

Date: Mon, 11 Mar 2002 08:03:46 -0500
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-l@Lehigh.EDU
Subject: [121801] Re: slingshot accessories
Message-ID: <3C8CAB31.87EFB5B9@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

And, I drill a hole through the handle of the slingshot; the Game Tracker Unit has a stud which then bolts the unit to the SS (1/4-20, I believe; you will need a nut if you can't tap the handle). When you are ready to let go, the line goes from the unit opening right up to the leather holding the sinker, and is then in the correct orientation to pay out without snagging. Fishing sinkers around 1 ounce work fine, you can try different weights for different shots. The more streamlined the sinker is, the more easily it will drop through the branches.

73, Ed, K2MGM.

Date: Mon, 11 Mar 2002 10:02:24 -0500
From: "Brian" <brian@iquest.net>
To: "pigs" <fpqrp-l@mpna.com>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [121802] PN2222A Transistors
Message-ID: <000b01c1c90d\$cd0e5a80\$3d05080a@cincom.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks everyone, my pile of 10,000 PN2222A NPN's has shrunk to 5000.

I still have 4000 to sell. Group buys, club kits, etc etc?

1000 for \$35 plus \$3 shipping
500 for \$20 plus \$3 shipping

If someone wants all 4000, I'll sell them for \$120.00 including shipping.

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
TEN TEC SCOUT @ 5W or NORCAL 40A @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
SOC #400 AND FLYING PIGS QRP #-57
=====

Date: Mon, 11 Mar 2002 10:03:54 -0500
From: "V Cortina" <vcortina@hvc.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [121803] Test Please delete
Message-ID: <000701c1c90d\$f6e75c80\$6401a8c0@hvc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

test

kr2f

Date: Mon, 11 Mar 2002 08:01:14 -0500
From: W2AGN <w2agn@pobox.com>

To: George Gingell <k3tks@abs.net>, Mike Zbrozek <k8xf@gte.net>
Cc: "George (NJ-QRP) Heron" <n2apb@amsat.org>,
QRP List <qrp-l@Lehigh.EDU>,
Subject: [121804] Re: [QRPP-I] Re: WQ3RP DE K8XF
Message-ID: <02031108011414.02221@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Monday 11 March 2002 02:36, George Gingell wrote:

>
> I will see if I can get Joe K3CHP to set up a schedule with you. Joe is
> Moving into that Unknown Territory, Known as DELEWARE, in the month of
> April. He will of Course be QRP, and QSL's 100%. I will authorize him
> to use the Club Callsign for The Month of APRIL.
>
> He will be "The 1st Official "MARYLAND MILLIWATT CLUB DE-XPEDITION"
>
> This is a real Special Event, in that All who read QRP-L know that there
> has been much talk lately about the Existance or NOT of the State of
> Delaware, and it's Alleged Ham Radio Operator Population.
>

--

Well, I wish you success. I made a DE-expedition last year to Brandywine
Creef State Park for QRP Afield. Worked 50 stations, but only received one(1)
QSL request! I had considered going to DE again for QRPTTF, but I didn't
think there was much demand after that last trip.

John L Sielke W2AGN
w2agn@pobox.com
<http://mywebpages.comcast.net/w2agn>
Trustee: W3IYQ

Date: Mon, 11 Mar 2002 10:13:59 -0500
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: "'w2agn@pobox.com'" <w2agn@pobox.com>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121805] RE: [QRPP-I] Re: WQ3RP DE K8XF
Message-ID: <F9351DA9F0F6D41187410090277B3EB304D5FCFA@ev008msxaege.ae.ge.com>

I wonder if there is a DE QSO party. I'm sure there would be plenty of DE
stations available.

Mark, AA4MF

-----Original Message-----

From: W2AGN [mailto:w2agn@pobox.com]
Sent: Monday, March 11, 2002 8:01 AM
To: Low Power Amateur Radio Discussion
Subject: Re: [QRPP-I] Re: WQ3RP DE K8XF

On Monday 11 March 2002 02:36, George Gingell wrote:

>
> I will see if I can get Joe K3CHP to set up a schedule with you. Joe is
> Moving into that Unknown Territory, Known as DELEWARE, in the month of
> April. He will of Course be QRP, and QSL's 100%. I will authorize him
> to use the Club Callsign for The Month of APRIL.
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> He will be "The 1st Official "MARYLAND MILLIWATT CLUB DE-XPEDITION"
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> This is a real Special Event, in that All who read QRP-L know that there
> has been much talk lately about the Existance or NOT of the State of
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QSL request! I had considered going to DE again for QRPTTF, but I didn't
think there was much demand after that last trip.

John L Sielke W2AGN
w2agn@pobox.com
<http://mywebpages.comcast.net/w2agn>
Trustee: W3IYQ

Date: Mon, 11 Mar 2002 10:18:20 -0500
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121806] Ten Tec's Story on the 516
Message-ID: <3C8CCABC.AD17C388@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gang--

Thanks to a number of you, I printed out 14 emails voicing strong support for the Ten Tec 516 if it comes out this Spring. I put them in an envelope and on Saturday, found the Ten Tec booth at the Charlotte Hamfest, went over to the most distinguished looking factory rep, and had a very pleasant exchange of views. I ended up with Dave Rhodes, an exec in the Sales division. He thanked me for the messages, and said Sales gets "many" emails every day about the 516. They had jury-rigged a 'non-working' version of the 516 for the show, and Dave said the boards had just arrived at the factory last week. The only working model was in the hands of the President, Jerry , who apparently has made several qso's with it. Kinda nice to know the Prez is playing with their low-power gear!

Dave said the firm was pretty stretched in manpower and had been working simultaneously on both the ORION and 516, shifting back and forth between the two projects. While he was making no promises, TT expects to be selling the 516 at Dayton. We also talked about the general design criteria for the 516, and he said their tests show the 516 to be a dynamite digital mode rig while a solid performer on SSB and CW at qrp levels. Of course, he did add the proviso "while the receiver's not an Elecraft, you don't have to put the rig together."

The jury rigged version was non-operable, so I can't tell you much beyond size and feel. Looks to be a little more compact than the K-2, main tuning knob being oversized and with a nice positive feel. Weight seemed a little less than the spec'd 5 lbs, but I don't know if the 'show' rig had all the ingredients inside. The digital frequency display was nicely sized, and easily readable in the usual high ambient light of the showfloor. Controls looked to be workable even with my big fingers, and clearly laid-out.

Yes, the ORION was there. Big...really big! Sort of a Cadillac model transceiver. The show rig was also not operable, so I didn't bother, but it will dominate the visual plane of any shack that gets one!

Overall I take TT at its word: they want the 516 out this Spring and they know there's a market out there wanting to lay hands on it. The rep I talked with showed genuine enthusiasm for the rig and TT's having it in their line-up. With luck we should see the rig, operable, at Dayton---well, those of you who get to go, that is. I'll be waiting the emails on the wonders of this new entrant to qrp!

73

Ken KG4FGC

Date: Mon, 11 Mar 2002 10:28:51 -0500
From: W2AGN <w2agn@pobox.com>
To: Kenneth Hoglund <hoglund@wfu.edu>,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [121807] Re: Ten Tec's Story on the 516
Message-ID: <0203111028511A.02221@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Monday 11 March 2002 10:18, Kenneth Hoglund wrote:

> Gang--
>
> Thanks to a number of you, I printed out 14 emails voicing strong
> support for the Ten Tec 516 i

<snip>

--

Thanks very much for your efforts. Glad to hear TT isn't abandoning VW's for
Cadillacs ;-)

John L Sielke W2AGN
w2agn@pobox.com
<http://mywebpages.comcast.net/w2agn>
Trustee: W3IYQ

Date: Mon, 11 Mar 2002 10:46:50 EST
From: Macstein@aol.com
To: <fpqrp-1@mpna.com>, <qrp-1@lehigh.edu>
Subject: [121808] Re: [fpqrp] PN2222A Transistors
Message-ID: <118.ded2d8c.29be2b6a@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Jo mentioned that those PN2222s might make a neat sculpture. I started to say my
2n2-40 looked more like an abstract rendering of a garbage dump rather than a
radio, but then that would make it art... no way. Jim's however, now THAT's art.

Brian... find us some metal ones!

-MAC-
AF4PS
FP-51

Date: Mon, 11 Mar 2002 11:01:00 -0500
From: "V Cortina" <vcortina@hvc.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [121809] Bizarre list problem.
Message-ID: <003701c1c915\$f062fd80\$6401a8c0@hvc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey guys,

I know you're not gonna believe this but I can't send a message to this list unless I am replying to a message sent from it.

I HAVE carefully checked the actual email address in my address book, and it matches the address that is on the incoming messages from QRP-L. I am sending this message that way. I changed the subject of someone else's message and deleted their text, and it works! But if I create a new one from the address book, it never comes up.

Other lists, like NJQRP, FPQRP and QRPP-I work OK.

Oh, and I am NOT sure if it ever did work, as I have been more the observer, and only replied to other messages.

Any ideas?

Vinny KR2F
Mt. Tremper, NY FN22ua
F.I.S.T.S. #4582, QRP-L #2397
NJ-QRP #349 QRPP-I #382
FPQRP #441 E.C.A.R.S. #20188
10-X #68971
1 more year to QCWA

Date: Mon, 11 Mar 2002 11:04:28 -0500

From: <duffy01@fuse.net>
To: qrp-1@Lehigh.EDU, tentec@contesting.com
Subject: [121810] Re: Ten Tec's Story on the 516
Message-ID: <20020311160635.C0AB12360.mta03.fuse.net@smtp.fuse.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Dear TenTec,

I did not send a letter of support for you folks to build them and start selling them now, but here is my advanced order for a 516. E-Mail me as soon as they're ready to ship and I'll call with all the information so you can ship it to me.

I would suggest others do the same thing if you want to buy one.

Regards,

Duffy

<http://www.wb8nut.com>

>
> From: Kenneth Hoglund <hoglund@wfu.edu>
> Date: 2002/03/11 Mon AM 10:18:20 EST
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Subject: Ten Tec's Story on the 516
>
> Gang--
>
> Thanks to a number of you, I printed out 14 emails voicing strong
> support for the Ten Tec 516 if it comes out this Spring. I put them in
> an envelope and on Saturday, found the Ten Tec booth at the Charlotte
> Hamfest, went over to the most distinguished looking factory rep, and
> had a very pleasant exchange of views. I ended up with Dave Rhodes, an
> exec in the Sales division. He thanked me for the messages, and said
> Sales gets "many" emails every day about the 516. They had jury-rigged a
> 'non-working' version of the 516 for the show, and Dave said the boards
> had just arrived at the factory last week. The only working model was in
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> qso's with it. Kinda nice to know the Prez is playing with their
> low-power gear!
>
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> simultaneously on both the ORION and 516, shifting back and forth
> between the two projects. While he was making no promises, TT expects to
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> criteria for the 516, and he said their tests show the 516 to be a

> dynamite digital mode rig while a solid performer on SSB and CW at qrp
> levels. Of course, he did add the proviso "while the receiver's not an
> Elecraft, you don't have to put the rig together."
>
> The jury rigged version was non-operable, so I can't tell you much
> beyond size and feel. Looks to be a little more compact than the K-2,
> main tuning knob being oversized and with a nice positive feel. Weight
> seemed a little less than the spec'd 5 lbs, but I don't know if the
> 'show' rig had all the ingredients inside. The digital frequency display
> was nicely sized, and easilly readable in the usual high ambient light
> of the showfloor. Controls looked to be workable even with my big
> fingers, and clearly laid-out.
>
> Yes, the ORION was there. Big...really big! Sort of a Cadillac model
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> it will dominate the visual plane of any shack that gets one!
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> Overall I take TT at its word: they want the 516 out this Spring and
> they know there's a market out there wanting to lay hands on it. The rep
> I talked with showed genuine enthusiasm for the rig and TT's having it
> in their line-up. With luck we should see the rig, operable, at
> Dayton---well, those of you who get to go, that is. I'll be waiting the
> emails on the wonders of this new entrant to qrp!
>
> 73
> Ken KG4FGC
>
>

Date: Mon, 11 Mar 2002 11:11:16 -0500
From: Jake Brodsky <frussle@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [121811] Re: Woodpecker on 15 meters!
Message-ID: <s2lp8usm302pmb81qe966vm936v3p19hta@4ax.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

On Sun, 10 Mar 2002 19:36:14 -0500, you wrote:

>Back in the mid-1970s, when the original Russian woodpecker reared its =
head,
>there was a rumor that a keyer set to the same rep rate would cause the
>woodpecker op to go nutso! The woodpecker I'm hearing on 80 meters has a

>buzzier pulse sound to it, but maybe the same technique would apply. Or,
>would that be "intentional QRM?"

No rumor. One could routinely do this with only 100 watts and an ordinary vertical or dipole antenna --and it usually worked. You set your keyer to something very close to 17.5 WPM and let the dits fly. Many guys marked that speed on their keyers for quick settings... Only problem was that the Woodpecker operator usually changed frequency to clobber someone else. Some guys would happily spend an afternoon chasing the Woodpecker around until the Soviets got disgusted and left the band.

In any case, I'm sure the FCC would probably tell you that two wrongs don't make a right. However, in my humble opinion, I rather doubt they'd make much effort at prosecuting those who "test" their radio gear this way.

Jake Brodsky, AB3A <mailto:frussle@erols.com>
"Beware of the massive impossible!"

Date: Thu, 11 Apr 2002 11:19:03 -0400
From: "Brian" <brian@iquest.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [121812] Re: [fpqrp] PN2222A Transistors
Message-ID: <002901c1e16c\$3762bd60\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mac,

I'm loooking!! I swear!!

I can find them but they're not CHEAP enough for me.

----- Original Message -----
From: <Macstein@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, March 11, 2002 11:46 AM
Subject: Re: [fpqrp] PN2222A Transistors

> Jo mentioned that those PN2222s might make a neat sculpture. I started to say my 2n2-40 looked more like an abstract rendering of a garbage dump

rather than a radio, but then that would make it art... no way. Jim's however, now THAT's art.

Date: Mon, 11 Mar 2002 11:41:38 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <fxtech@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121813] Re: Open Wire Transmission Line
Message-ID: <20020311164300.BHRW9692.imf28bis.bellsouth.net@[192.168.0.21]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 3/4/02 3:19 PM, Trevor Jacobs at fxtech@earthlink.net wrote:

>If you really take a look at what the 4:1 balun is expected to do and
>where it is located in the tuner, these manufacturers are incorrect!

Why?

>If
>anything, a balun should be at the input of the tuner!

Why?

> Or, if you want
>to take a look around and find an old Johnson Matchbox, a true Link
>Coupled Balanced Line Tuner, it uses NO BALUN!

So?

>Read this page for information on why not to use a balun:
>
><http://www.vcnet.com/measures/bbat.html>

This guy claims that unbalanced tuners feeding a balun produce only a "semi-balanced" output. However, he never defines what he means by "semi-balanced", nor how these tuners arrive at that condition.

>Here's what L. B. Cebik has to say:
>
><http://www.cebik.com/link.html>

Cebik cautions against the use of a 4:1 balun, since it often transforms to a lower, harder to match impedance. But he doesn't say that the unbalanced tuner followed by a balun is inherently bad. Instead, he

explores the lost lore of the balanced tuner.

>There are plans for a good BLT in Bill Orr's book "Simple Low-Cost Wire
>Antennas for Radio Amateurs" along with a very straight forward
>explanation of how to build a true Multi-Band Dipole using ladder line.
>I bought this book at HRO. I've done a LOT of reading over the last 2
>years on the subject of ladder line antennas, and it all points to one
>common thing, "DON'T USE A BALUN ON THE OUTPUT".

Please explain WHY.

The transmitter, feedline and antenna certainly don't care. All transmitters manufactured today are unbalanced devices. So, the unbalanced to balanced transformation has to take place SOMEWHERE. Why not in a balun? Why not after the tuner? All that really matters is the balun have good balance and reasonable efficiency. If we keep the losses low, this can be easily achieved with a quality current balun.

Indeed, the 4:1 voltage balun you decry isn't any different in operation than the voltage balun inherent in a link-coupled balanced line tuner. except, rather being on the input or the output, it is in the middle.

>Since we are operating
>QRP, you want to get as much power radiated from the antenna as
>possible,

The key requirement here is EFFICIENCY. This means LOW LOSS. So long as the losses are small, it doesn't matter if the balun is in the input, output or middle of the matching network.

> Using a 4:1 Balun that comes in these little tuners causes big
>losses!

Prove it. What sort of loss occurs in these baluns? 3 dB? If that were so, a 100 watt signal passing through such a balun would dissipate 50 watts. It would get REAL hot REAL fast. But that doesn't happen, does it?

>Also I might add that after I got rid of my Balun, and started
>using a Johnson Matchbox, the RX signals improved a lot! I was really
>able to hear weak signals much better.

Perhaps you had a poorly designed balun. Plenty of those around.

>This seems to be one area (not the only one) that we've taken a step
>backwards in as far as the kind of tuners that you can buy commercially
>since the 50's/60's.

Poppycock. You seem to assume there's something "magic" about balanced

line use. If so, when are you going to modify your transmitter to produce a balanced output?

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 11 Mar 2002 11:54:23 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <w2wurjj@verizon.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121814] Re: Open Wire Transmission Line
Message-ID: <20020311165545.BOKH9692.imf28bis.bellsouth.net@[192.168.0.21]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 3/4/02 4:52 PM, W2WU at w2wurjj@verizon.net wrote:

>Correct, certain antenna tuners may degrade into high pass filters. They
>have capacitors in the active leg and are shunted by the inductor.

If these T network tuners are adjusted properly, they do not have the
high-pass property.

>There are two types of balun: Coke and Voltage. Any balun can have
>different ratios.

I thought it was Coke and Pepsi.

Seriously thought, there are two types of balun: Current and Voltage.
Current baluns are sometimes called "Choke" baluns.

>If the antenna is unbalanced, coax feeders radiate and coax has greater
>attenuation than open wire line.

Wha? No way. If you feed an unbalanced antenna with coax, the coax should
NOT radiate. And the losses inherent in ANY feedline have NOTHING to do
with feedline radiation.

Open wire has much lesser loss than coax FOR THE MATCHED CONDITION. Read
that again. That means if you use 50 ohm coax and 450 ohm open wire, then
you have to use a 50 ohm load or a 450 ohm load to see the difference.

The reason is simple -- I^2R losses. 50 ohm circuits draw a lot more current than a 450 ohm circuit for the same power level. 450 ohm balanced line has less current flowing, and much less loss. (And making 450 ohm coax with the same center conductor as your typical ladder line would be impractably large)

But, we're not talking about matched conditions, are we? We're talking about multi-band dipole antennas where we don't care at all what the actual antenna impedance is.

The reality is, in some cases, coax might offer lesser losses on some bands.

>Therefore use of an ATU with open wire line
>provides a single antenna capable of multiband operation.

Using the same antenna with coax does the same thing. On most bands, where the antenna has a relatively high impedance, the open wire is very likely to be more efficient. On some bands, the coax might be more efficient.

With these single compromise antenna designs, likely we don't care to measure efficiency for every band. In that case, open wire is a good choice.

>Suggestion: Remove all internal baluns. Put balun on input.

Where do people come up with these crazy ideas?

Input, output, middle -- it's all the SAME! So long as the balun is efficient, put it where it naturally fits. With the proliferation of efficient unbalanced tuners, it makes sense to put it on the output.

> Simply place
>ferrite beads at each end and center of coax cable length.

What FOR? What do these beads DO? And why would you need them on each end and the center?

> See ARRL Antenna
>Book. Designed by W2OBJ, W7EL, Walt Maxwell. Balun tested and in use at
>W2OBJ & W2WU.

I'm well familiar with Walt's work, and I'm sure he didn't suggest anything as crazy as ferrite beads on the ends and middle of a coax run....

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 11 Mar 2002 12:00:57 -0500
From: "Jeff Poulin" <jpoulin@erols.com>
To: <QRP-L@lehigh.edu>
Subject: [121815] FS: OHR-400
Message-ID: <003101c1c91e\$5120f200\$0101a8c0@jpoulin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Folks,

I have an OHR-400 QRP CW transceiver for sale. It was built by someone else so it works great. Covers 80, 40, 30, and 20 meters (all of 30, of course, and includes the novice portion of 40). Up to 5 watts out, built-in keyer with front speed control, RIT, selectable filter, connection for digital frequency readout. There is no power cord but that is simple to make. Includes the building instructions that were followed and operating intructions. The looks are an 8 to 9, electrically a 10. This rig works great but with a QRP+, itis excess to my needs (and space).

\$175.00 includes shipping.

Please reply to N1SN@arrl.net and thanks.

72,

Jeff N1SN
Manassas, VA
QRP-L # 2401

Date: Mon, 11 Mar 2002 12:00:37 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <wb4mnf@atl.org>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [121816] Re: Open Wire Transmission Line
Message-ID: <20020311170159.JW0Y1304.imf17bis.bellsouth.net@[192.168.0.21]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 3/5/02 8:55 AM, wb4mnf at wb4mnf@atl.org wrote:

>What is the incremental benefit of 'real' open wire line
>over the 450 ohm 'window' line relative to that of the
>'window line' over say RG8 'foam' core coaxial cable.

"Real" open wire line has an impedance of 600-900 ohms (depends on actual spacing and size of conductors). Typically 12 gauge wire is used. Thus, for the MATCHED condition, open wire has less I^2R losses than 450 window line of the same or smaller gauge wire.

Real open wire also has lower dielectric losses than 450 window line, since there isn't as much material between the wires. But dielectric losses are pretty small compared to the I^2R losses.

>Let's say in a situation where I've an electrical full wave
>on 40m feeding my loop on 80 and 40 where the loop is
>45ohm at resonance on 80 and 160ohm at resonance on 40
>and the imaginary part of the reactances varies from
>-300 to +300 over the full bandspread and I'm matching
>at the transmitter.

Here's what you do. First, figure out what the SWR is on each of the lines (It's going to be different, since the lines have different characteristic impedances) Then, go look up the chart in the ARRL handbook for the loss of the line, plus the additional loss due to SWR. Total these up, and see if it makes a big difference.

I'll lay odds that you won't find a lot of difference for 450 and 600 ohm transmission lines.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 11 Mar 2002 09:18:19 -0800
From: "DTX" <dtx@wood.tzo.com>

To: "qrp-l listserver" <qrp-l@lehigh.edu>,
"V Cortina" <vcortina@hvc.rr.com>
Subject: [121817] Re: test message w/DTX
Message-ID: <00f101c1c920\$bdc7aa00\$0c00a8c0@home>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ah ha <G> When you originate, you are making HTML or RTF documents and the list will usually reject those. Keeps scripts from passing virus/trojan things around. Somewhere in your set up menus you will find a place to set plain text instead of RTF/HTML. In my version of Outlook Express, it is under options/send about half way down.

When you are replying to someone else's msg, the reply will follow the format of the original msg as a default. Unless you go to some manual efforts to force HTML.

I "reformatted" this in plain text mode so it should appear on the list.

Gary WA6DTX
----- Original Message -----
From: V Cortina
To: Low Power Amateur Radio Discussion
Cc: DTX
Sent: Monday, March 11, 2002 8:52 AM
Subject: test message w/DTX

Hi Gary,

Thanks for helping out. I originated this message on my own. (redundant?)

Do you see anything wrong?

Thanks,

Vinny KR2F
Mt. Tremper, NY FN22ua
F.I.S.T.S. #4582, QRP-L #2397
NJ-QRP #349 QRPp-I #382
FPQRP #441 E.C.A.R.S. #20188
10-X #68971
1 more year to QCWA

Date: Mon, 11 Mar 2002 09:22:20 -0800
From: "Bill Jones" <kd7s@psnw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [121818] Old Geeer Relives the Past
Message-ID: <001f01c1c921\$681cb4a0\$088b6bd1@j3s0p2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yesterday, March 10th marked the beginning of my 48th year of being a licensed amateur radio operator. I spent a few minutes thinking about my first transmitter, a 6AG7 driving a 6L6. And then there was the receiver, a converted ARC-5. Gone are the days when you could tap out, di-di-di-dit, di-dit on your car's horn and get a smile and wave from another driver with call letter license plates. Names like National, Drake, Johnson, Hallicrafters and Heathkit are just a distant memory now. A 13 year old kid could buy a brand new J-38 for under a dollar. Life was simpler then. Not necessarily better but certainly simpler.

One thing hasn't changed, however. Ham radio operators are still some of the finest people in the world. God bless you all, my friends.

=====
Bill Jones -- KD7S -- <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Mon, 11 Mar 2002 12:28:06 -0500
From: "Ed Tanton" <n4xy@earthlink.net>
To: <aa4lr@arrl.net>,
 "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [121819] RE: Open Wire Transmission Line
Message-ID: <006301c1c922\$1f2c9110\$c39efea9@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

I agree with Bill... and except for personal nth-degree 'tuning satisfaction', I'd wager you'd never be able to discern an operating difference at all.

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Mon, 11 Mar 2002 11:30:17 -0600
From: Steve Bauder <sbauder@wwt.net>
To: qrp-1@lehigh.edu
Subject: [121820] Deal on Caron's "Antenna Impedance Matching"
Message-ID: <3C8CE9A8.CEA101CC@wwt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I noticed while browsing through University of Wisconsin-Stout's withdrawn textbooks that they have 20 or 30 of Wilfred Caron's "Antenna Impedance Matching", published in 1989 by the ARRL. If anyone is interested in obtaining a copy of this book, I think I could ship it to US addresses at the book rate and just about cover my costs for \$5. The few I looked at are in good shape and still have a \$2 ARRL coupon in the back.

Chapters include: The Transmission Line; The Transmission Line as a Circuit Element; The Smith Chart; Impedance Matching Techniques; Matching over a Band of Frequencies; Matching Solutions. Caron uses the Smith Chart extensively throughout the text.

I've had a copy since the early 90's and refer to it frequently.

Send me an e-mail and let me know if you'd like a copy.

73,
Steve, nx9z

Date: Mon, 11 Mar 2002 12:42:18 -0500
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121821] EZNEC > Gamma Matches
Message-ID: <F9351DA9F0F6D41187410090277B3EB304D5FD06@ev008msxaege.ae.ge.com>

Has anyone had any luck modeling gamma matches with EZNEC? I tried, but I found it was very sensitive to segment placement and geometry. I felt like I was modifying my model to match calculations - not quite what I wanted to do. Couldn't get it to quite match the results from HamCalc.

Any tips appreciated!

Mark, AA4MF

Date: Mon, 11 Mar 2002 12:46:10 -0500
From: "V Cortina" <vcortina@hvc.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [121822] Bizarre problem solved!
Message-ID: <00e201c1c924\$a193ace0\$6401a8c0@hvc.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to all those patient souls who helped me solve the great missing messages caper.
I had to set my address book listing for plain-text emails only. (I never paid it much mind 'til now.)

72 es 73

Vinny KR2F
Mt. Tremper, NY FN22ua
F.I.S.T.S. #4582, QRP-L #2397
NJ-QRP #349 QRPP-I #382
FPQRP #441 E.C.A.R.S. #20188

10-X #68971
1 more year to QCWA

Date: Mon, 11 Mar 2002 12:07:32 -0600
From: "George, W5YR" <w5yr@att.net>
To: sbauder@wwt.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [121823] Re: Deal on Caron's "Antenna Impedence Matching"
Message-ID: <3C8CF264.62490D4C@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Excellent book! Hop on this one!

73/72/oo, George W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
QRP-L 1373 NETXQRP 6 SOC 262 COG 8 FPQRP 404 TEN-X 11771 I-LINK 11735
Icom IC-756PRO #02121 Kachina 505 DSP #91900556 Icom IC-765 #02437

All outgoing email virus-checked by Norton Anti-Virus 2002

Steve Bauder wrote:

>
> I noticed while browsing through University of Wisconsin-Stout's
> withdrawn textbooks that they have 20 or 30 of Wilfred Caron's "Antenna
> Impedance Matching", published in 1989 by the ARRL. If anyone is
> interested in obtaining a copy of this book, I think I could ship it to
> US addresses at the book rate and just about cover my costs for \$5. The
> few I looked at are in good shape and still have a \$2 ARRL coupon in the
> back.
>
> Chapters include: The Transmission Line; The Transmission Line as a
> Circuit Element; The Smith Chart; Impedance Matching Techniques;
> Matching over a Band of Frequencies; Matching Solutions. Caron uses the
> Smith Chart extensively throughout the text.
>
> I've had a copy since the early 90's and refer to it frequently.
>
> Send me an e-mail and let me know if you'd like a copy.
>
> 73,

> Steve, nx9z

Date: Mon, 11 Mar 2002 10:08:40 -0800 (PST)
From: bob parks <rob3ert@yahoo.com>
To: qrp-1@lehigh.edu
Subject: [121824] FS K2
Message-ID: <20020311180840.49963.qmail@web14704.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

It has become apparent to me, that without an antenna,
and no promise of one in the future, I must sell my
K2.

This unit is very well-built and includes the KAT2
antenna tuner (which works like a charm!). Also
included, but NOT built-in are the KSB2, the K160M and
the KNB2 kits. All documentation is included. The
manuals have my "hen scratching" in them, as I
followed the instructions to the letter. There are NO
modifications, it has the original software, as well
as the original tuning knob!

I am asking \$700 plus shipping for the "lot".

If interested, please reply to directly, as I get
digest.

Regards,

Bob Parks
K6AEC

Do You Yahoo!?
Try FREE Yahoo! Mail - the world's greatest free email!
<http://mail.yahoo.com/>

Date: Mon, 11 Mar 2002 13:39:14 -0500
From: Jake Brodsky <frussle@erols.com>
To: qrp-1@lehigh.edu
Subject: [121825] RG-316

Message-ID: <13up8u4f55f8aq0vekms6l70404u12fnb8@4ax.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: quoted-printable

=46olks, a few days ago some of you were looking for teflon RG-174. There is a cable type of exactly this sort. It's called RG-316. A friend of mine bought literally six MILES of this stuff from military surplus. It's in new condition on the original rolls. He's selling it in various quantities on E-Bay.=20

<http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&item=3D1712082089&ssPageName=e=3DADME:B:LC:US:1>

He's asking for a fraction of the new cost. You may want to check it out. =20

I have no financial connection with any of this except that I helped him truck this and several other pallets of stuff from the surplus outlet. =20

73,

Jake Brodsky, AB3A <mailto:frussle@erols.com>
"Beware of the massive impossible!"

Date: Mon, 11 Mar 2002 13:45:37 -0500

From: Wes Clopton <W3ERU@DRIX.NET>

To: qrp-1@lehigh.edu

Subject: [121826] Re: Binaural Receiver

Message-ID: <5.1.0.14.2.200203111133323.025edaa0@66.200.37.131>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

There is a couple of articles that may interest the Binaural gang..

http://www.natworld.com/ars/pages/back_issues/2001_text/0501_text/street.html

and

http://www.natworld.com/ars/pages/back_issues/2001_text/0301_text/binaural.html

Check them out....

W3ERU Wes

ARRL
FISTS #2099
QRPARCI 8304
QRP-L 2179
CW is my Mode

Date: Mon, 11 Mar 2002 13:54:21 EST
From: MITCHELLRI@aol.com
To: <qrp-l@lehigh.edu>
Subject: [121827] Tiny Tornado Kits
Message-ID: <99.2310a8d8.29be575d@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Has anyone heard how long it takes to receive the Tiny Tornado kits from QRPp international? E-mail was unanswered.
I ordered version 2d some weeks ago and have heard nothing.

Thanks in advance.

Leeds Mitchell
WA1GJF

Date: Mon, 11 Mar 2002 09:31:09 -0500
From: trandall@idsi.net
To: QRP List <qrp-l@lehigh.edu>
Subject: [121828] Re: PSK31 is not all it's cracked up to be
Message-ID: <a05100300b8b26edad842@[64.72.71.117]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Jeff wrote: ".... So I am sticking with CW and scrapping PSK31 for the near future. That mode is not all it's cracked up to be. Sorry not to jump on the bandwagon and talk about what a great mode it is."

Apparently PSK31 isn't for you. That's O.K. I find the mode amazing and LOTS of fun myself, talking to people in Europe with 5-10 watts through my G5RV blows my mind. Even though that antenna isn't the greatest it works very well for me and I work 10m and 20m PSK31 with 10 watts or less and have no problem making and keeping contacts.

Sure, prop can change but all in all PSK31 is a blast as far as I'm concerned.

73,
Tom - KB2SMS

--

Date: Mon, 11 Mar 2002 14:04:00 -0500
From: W2AGN <w2agn@pobox.com>
To: MITCHELLRI@aol.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [121829] Re: Tiny Tornado Kits
Message-ID: <0203111404001F.02221@jsielke>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

On Monday 11 March 2002 13:54, MITCHELLRI@aol.com wrote:
> Has anyone heard how long it takes to receive the Tiny Tornado kits from
> QRPp international? E-mail was unanswered. I ordered version 2d some weeks
> ago and have heard nothing.
>
> Thanks in advance.
>
> Leeds Mitchell
> WA1GJF

--

Bruce has posted progress reports several times. Remember he said he would not be getting parts until he had the orders, and advised patience.

John L Sielke W2AGN
w2agn@pobox.com
<http://mywebpages.comcast.net/w2agn>
Trustee: W3IYQ

Date: Mon, 11 Mar 2002 14:16:48 EST
From: W2SH@aol.com
To: qrp-1@lehigh.edu
Cc: wb4mnf@atl.org, aa4lr@arrl.net
Subject: [121830] Open Wire Transmission Line

Message-ID: <7c.2449330c.29be5ca0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

On 11 Mar 02 at 1201 hours AA4LR wrote:

>>"Real" open wire line has an impedance of 600-900 ohms (depends on actual
>>spacing and size of conductors). Typically 12 gauge wire is used. Thus,
>>for the MATCHED condition, open wire has less I^2R losses than 450 window
>>line of the same or smaller gauge wire.

>>Real open wire also has lower dielectric losses than 450 window line,
>>since there isn't as much material between the wires. But dielectric
>>losses are pretty small compared to the I^2R losses.

In response to:

WB4MNF, who had asked on 05 Mar 02 at 0855 hours

>What is the incremental benefit of 'real' open wire line
>over the 450 ohm 'window' line relative to that of the
>'window line' over say RG8 'foam' core coaxial cable.

What really hurts the window line is simply that it isn't very open.
Measured against a yardstick, what I have shows it to be 58-percent closed!
It has somewhat more dielectric loss than open-wire line when it is dry, but
a great deal more such loss when it is wet.

Secondly, so far as I know, most, if not all, of the 450-Ohm window line has
copper-clad steel conductors; both solid and stranded versions exist. This
is quite unnecessary, for the mechanical strength of steel is certainly not
needed in feedlines, which should never need to be under tension. I have had
unhappy experiences with magnetic materials in rf fields, and especially so
in feedlines where high SWRs are present, and this is something which
invariably occurs when the feedline is an integral part of a multiband
antenna system.

The balanced feedline purist should go for lightly insulated, solid copper
conductors, high quality spreaders spaced far enough apart (and perhaps
irregularly spaced to mitigate periodicity) from each other to yield
98-percent "openness." When installed, the feedline should be twisted, say a
complete turn every 20 feet or so, to help equalize between the two
conductors the detuning presence of nearby foreign conductive objects.

The practical balanced feedline enthusiast should try to find a commercially available window line having pure copper conductors (there may be 300-Ohm line with these in stranded form), and then, regardless of what window line is ultimately selected, cut out as many of the "window panes" as can be sacrificed, and narrow those remaining, while still preserving a reasonably parallel line.

The actual surge impedance of the open-wire line is pretty unimportant, and especially so in a multiband situation. The greater the spacing, the higher the impedance and the lower the dielectric losses. However, at VHF frequencies the spacing becomes an appreciable fraction of a wavelength and the feedline starts to behave like an antenna. I would guess that 0.75 inch might be the maximum spacing that one would want for an open-wire feedline at two meters.

72/73,

Charles, W2SH

Date: Mon, 11 Mar 2002 14:18:03 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [121831] Re: Binaural Receiver
Message-ID: <5.1.0.14.1.20020311141601.00a60ec0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:45 PM 3/11/2002 -0500, you wrote:

>There is a couple of articles that may interest the Binaural gang..
>
>http://www.natworld.com/ars/pages/back_issues/2001_text/0501_text/street.html
>
>and
>
>http://www.natworld.com/ars/pages/back_issues/2001_text/0301_text/binaural.html
>
>Check them out....

FWIW,

It seems to me a Tayloe detector would be ideal for a binaral receiver.
Anybody tried it?

Dave

"You can fool some of the people all of the time. That's enough to make a living." - Lance Burton
Dave Hinerman
WD8CIV@worldnet.att.net

Date: Mon, 11 Mar 2002 11:20:18 -0800
From: Adam Nathanson <adamn@n8software.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121832] \$3 sealed 12V 2ah batts
Message-ID: <015f01c1c931\$c8167520\$fb057942@adamsdell>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If anyone needs a nice battery for QRP ops check out
<http://www.eham.net/classifieds/detail/42444>

For \$6/2 the price is a steal. I bought a pair a couple of months ago and they work FB with my SW-20+.. think I'll have to recharge before summer. ;)

73,

Adam N.
N4EKV
Oakland, CA

Date: Mon, 11 Mar 2002 14:29:33 -0500
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-l@lehigh.edu>
Subject: [121833] Crystals for sale
Message-ID: <6579C6377F475547985F0B3E426E1626140479@0CCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi

I have sent this before but maybe there just isn't any interest in crystals for radio.

For Sale=20

Military crystal carrying case, metal, with felt crystal=20 slots. Comes with about 15 crystals. Color Military green.

I am asking \$25.00 plus shipping, I would guess about 5=20 dollars CONUS depending on location for PP, a little more for Priority.

If anyone is interested I could take some pictures and send by return email.

Marty kd8bj=20

Marty Hartwell
AT&T Columbus Ohio
PH:614-501-2503

Date: Mon, 11 Mar 2002 15:00:12 -0500
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>
To: <qrp-l@lehigh.edu>
Subject: [121834] crystals for sale
Message-ID: <6579C6377F475547985F0B3E426E162614047E@OCCLUST01EVS1.ugd.att.com>
content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi

I have at least three responses so far.=20
So if one of these aren't interested I=20
will relist. When I relist I will list=20
with the frequencies of the crystals. I
thought the container might be what was
interesting and wanted.=20

Marty Hartwell kd8bj
AT&T Columbus Ohio

PH:614-501-2503

Date: Mon, 11 Mar 2002 14:12:54 -0600 (CST)
From: "Adrian Weiss" <aweiss@usd.edu>
To: qrp-1@lehigh.edu
Subject: [121835] 30m EU Pile-up -- What a HOOT! :)
Message-ID: <Pine.SOL.4.03.10203111359270.11768-100000@sunburst.usd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang:

This is a new one for QRP! Last night at around 0635
I tuned across a fairly weak sig at 10.107.5 or so,
didn't pay much attention, but heard him sign "/QRP".
I thought -- "yep, another QRP'r making a QSO -- great!"

A couple of mins later, I tuned back across and there
were a couple of EU stns calling him and all I got was
the "KH7" prefix. OKayyy -- time to join the fun.
I thought it was KH6, as did the EU stns. I worked
him quick RST, and he went into the QRZ-mode, and
in about 30 seconds, there was a real pile-up! Boy,
some of those EU's were 579 here. About 4 QSO's
later, KH7YZD gave his QTH = WA! not KH6! Anyhow,
this little pile-up went on for 10 mins at least.

Boy, what a neat showing for QRP! I'm sure there were
a few disappointed EU guys hoping that it really was
Hawaii. But it sure let everybody see that the QRP
sig from WA can be heard in EU and get a lot of
responses.

I wondered how I could do if I CQ'd signing a garbled
form of HL1 or ZL7 or some such -- just a thought.

I keep hearing QRP'rs new to 30m bagging DX regularly.

We're in the spring equinox phase when DX improves
greatly on 30m. Fer'instance, in March, this is
what I've worked:

TI9M
RK6
H7DX

PW0T
US2
UR8
YL2
ES1
F5
DJ3
EA7
LZ1
V51
P49
HC2
LZ1
OH3
I1
YN4
LA5
F6
JW1
ZF2
UR3
RA3
F5
LA3
YL2
LZ1
UA9

Open to Carrib/SA early evenings a later (2200-)
Best so far for EU is "wake-up" time after 0500Z
w. some from 0400-0500.

72, Ade

Date: Mon, 11 Mar 2002 15:16:35 EST
From: N4SKS@cs.com
To: qrp-1@lehigh.edu
Subject: [121836] info needed on yaesu
Message-ID: <53.13555ff4.29be6aa3@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Per haps some of you can help me. I am told that the new yaesu desk mike
MD100 a8x

will nor work directly with a FT-840 . The manual says use a md-1 desk mic but they don't make them anymore , and I think they look ugly. Does anyone know the answer does the new MD100a8x mic work with the FT840 with no mods ? Thank You for your help.

Les K4NK

Date: Mon, 11 Mar 2002 12:34:33 -0800
From: Bob Welch <p326@earthlink.net>
To: n7rr@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [121837] Re: Elecraft K1 Transceiver: A Lean, Mean CW Machine
Message-ID: <3C8D14D9.EE8E1FF@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce,

Thank you for your great follow up report. Complete in every detail just like your enjoyable presentation at the Ham Fest.

Bob, W8MCJ

1..

> didn't
> Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

Date: Mon, 11 Mar 2002 14:40:42 -0600
From: Steve Bauder <sbauder@wwt.net>
To: qrp-1@lehigh.edu
Subject: [121838] Re: Deal on Caron's "Antenna Impedance Matching"
Message-ID: <3C8D1649.3247422A@wwt.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

All the copies have been spoken for.

Date: Mon, 11 Mar 2002 15:36:57 -0500
From: hamjoel@juno.com
To: fpqrp-1@mpna.com, qrp-1@lehigh.edu
Subject: [121839] Joel's mobile Truck.... continued
Message-ID: <20020311.153922.-260753.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok

hears what ah done today... I took a 12v 5ah battery into the truck and hooked the qrp+ to it... checked the receiver and found no noise in it... turned the ignition key to on but did not start motor, still clear... started the motor and the noise came back but not as bad as it was when I used the truck's battery...and of course dissapeared when I disconnected the ant....

However now I could hear the popping, the alt wine and the noise increase when I stepped on the gas....(with the ant connected)
so seems ah got problems under the hood... oh dear me....

ke1la joel
in maine

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Date: Thu, 11 Apr 2002 15:45:42 -0400
From: "Brian" <brian@iquest.net>
To: <hamjoel@juno.com>, <fpqrp-1@mpna.com>, <qrp-1@lehigh.edu>
Subject: [121840] Re: [fpqrp] Joel's mobile Truck.... continued
Message-ID: <001101c1e191\$772474f0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Joel,

I have the same problem with my Saturn. I have tried the same experiment you have related here. With the same sorry results.

Let me know if you figure out a way to fix it?

----- Original Message -----

From: <hamjoel@juno.com>
 To: <fpqrp-1@mpna.com>; <qrp-1@lehigh.edu>
 Sent: Monday, March 11, 2002 4:36 PM
 Subject: [fpqrp] Joel's mobile Truck.... continued

> Ok
 > hears what ah done today... I took a 12v 5ah battery into the
 > truck and hooked the qrp+ to it... checked the receiver
 > and found no noise in it...
 > turned the ignition key to on but did not start motor, still clear...
 > started the motor and the noise came back but not as bad
 > as it was when I used the truck's battery...and of course dissapeared
 > when I disconnected the ant....
 > However now I could hear the popping, the alt wine and the noise
 > increase when I steped on the gas....(with the ant connected)
 > so seems ah got problems under the hood... oh dear me....
 >
 > kella joel
 > in maine
 >
 >
 > -----
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 > <http://dl.www.juno.com/get/web/>.
 > -To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-1 -
 >

 Date: Mon, 11 Mar 2002 15:46:49 -0500
 From: Dave Gingrich K9DC <gingrich2@dcg.org>
 To: aweiss@usd.edu,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
 Subject: [121841] Re: 30m EU Pile-up -- What a HOOT! :)
 Message-ID: <5.1.0.14.2.20020311154437.0194fb50@127.0.0.1>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"; format=flowed

At 14:12 3/11/2002 -0600, Adrian Weiss wrote:

>I wondered how I could do if I CQ'd signing a garbled
>form of HL1 or ZL7 or some such -- just a thought.

I'll let you know. I'm planning on taking my K2 with me to HL1 next month.
Hope the license comes in time!

:)

-Dave

```
=====
Dave Gingrich, K9DC - Indianapolis, Indiana USA
K2 #2211, K1 #931, QRP-L #2376, ARS #1109,
FPQRP #389, IRLP #473, k9dc.ampr.org, CCIE #6748
=====
```

```
-----
Date: Mon, 11 Mar 2002 12:52:57 -0800
From: Mark Schoonover <schoon@amgt.com>
To: "'hamjoel@juno.com'" <hamjoel@juno.com>,
    "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [121842] RE: Joel's mobile Truck.... continued
Message-ID: <BF889CEBEFD2D511B993009027F60ABE1554D3@AG-JASMINE-NT4>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
```

Joel,

What kind of vehicle are you trying HF mobile?? I have some tips on
my website, and plenty more in my head that I haven't written up yet. Be
glad to help out...

72

.mark

```
--{ Mark E Schoonover KA6WKE
--{ Senior Hacker, IS Gopher, Hardware Fiend
--{ American Geotechnical
--{ http://www.qsl.net/ka6wke
--{ ka6wke@amsat.org
```

```
-----Original Message-----
From: hamjoel@juno.com [mailto:hamjoel@juno.com]
```


Sent: Monday, March 11, 2002 12:37 PM
To: Low Power Amateur Radio Discussion
Subject: Joel's mobile Truck.... continued

Ok

hears what ah done today... I took a 12v 5ah battery into the truck and hooked the qrp+ to it... checked the receiver and found no noise in it...

turned the ignition key to on but did not start motor, still clear... started the motor and the noise came back but not as bad as it was when I used the truck's battery...and of course dissapeared when I disconnected the ant....

However now I could hear the popping, the alt wine and the noise increase when I stepped on the gas....(with the ant connected)

so seems ah got problems under the hood... oh dear me....

kella joel
in maine

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Date: Mon, 11 Mar 2002 07:56:19 -0500
From: Tim O'Rourke <TO'Rourke@KaiserFT.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [121843] K1 Filter Boards for sale
Message-ID: <0514B74864ACD511934400508BBB5E3415F637@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I now hve one of my K1's converted to 4 bands so I hve 1 built up 20/40 meter KFL1-2 filter board available. I also hve 2 un built KFL1-2 filter board kits available. \$60 for built 20/40 and \$50 for unbuilt boards or best offer.

Tim O'Rourke KG4CHX

Date: Mon, 11 Mar 2002 15:00:08 -0500
From: Tim O'Rourke <TO'Rourke@KaiserFT.com>

To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [121844] K1 2 band filter boards
Message-ID: <0514B74864ACD511934400508BBB5E3415F63E@EMAIL1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I now hve one of my K1's converted to 4 bands so I hve 1 built up 20/40 meter KFL1-2 filter board available. I also hve 2 un built KFL1-2 filter board kits available. \$60 for built 20/40 and \$50 for unbuilt boards.
Tim O'Rourke KG4CHX

Date: Mon, 11 Mar 2002 16:11:35 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: MITCHELLRI@aol.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Cc: QRPp-I@yahoogroups.com
Subject: [121845] Re: Tiny Tornado Kits
Message-ID: <01f101c1c941\$53c10360\$7101a8c0@lwrnc1.in.home.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Leeds,

I have been trying to get these kits out as quickly as possible. Please keep in mind I'm doing this all by myself. Since I began taking orders for the REV2d kits... I've had pneumonia, my uncle died, I began and ended two contract positions, and updated the board design at the last minute which means new manuals, schematics, layout diagrams, etc.

All the parts have been ordered and I've been receiving them bit by bit almost every day. All the kits are partially kitted and I've been working on low pass filter kits and mailing labels while waiting on parts to arrive. Some of the LM386's are backordered but due to ship on the 15th so I should have everything ready and kitted by the end of the week. I hope to begin shipping kits this coming weekend or early next week.

I've been posting updates on the QRPp-I.com Web site. I will also post an update on the site and lists when I begin shipping. All the kits (except those going overseas) will be shipped USPS Priority Mail so once I get them going... they'll get to you quickly.

As for my not replying to an email... I honestly don't believe I received it. I've looked for it again and cannot find it. I typically do a very good job

of replying to emails. If you asked any questions I haven't answered here... please resend it.

Again... I'm sorry for the delays and inconvenience. I'm doing the best I can.

73/72/71! de Brice KA8MAV
<http://www.QRPp-I.com>

----- Original Message -----

From: <MITCHELLRI@aol.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Monday, March 11, 2002 1:54 PM

Subject: Tiny Tornado Kits

> Has anyone heard how long it takes to receive the Tiny Tornado kits from QRPp international? E-mail was unanswered.

> I ordered version 2d some weeks ago and have heard nothing.

>

> Thanks in advance.

>

> Leeds Mitchell

> WA1GJF

>

Date: Mon, 11 Mar 2002 13:09:52 -0800 (PST)

From: bob parks <rob3ert@yahoo.com>

To: qrp-l@lehigh.edu

Subject: [121846] re: FS K2 ---Sold!

Message-ID: <20020311210952.87883.qmail@web14706.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Gang, quick as lightening, the rig is apparently sold.

Thanks for all the interest and the nice e-mails!

Regards es 72/73,

Bob Parks
K6AEC

Do You Yahoo!?
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Date: Mon, 11 Mar 2002 13:07:29 -0800
From: "blinn" <blinn@smgazette.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [121847] TEK 453 Frequency Calibration ?
Message-ID: <025401c1c940\$c23aae00\$da1d5540@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just acquired an old Tek 453 scope.. (My first!) And... I would like to touch up the frequency calibration. I'm using a frequency generator to acquire signals and after carefully eyeballing the horizontal period and calculating the frequency it always comes in just a bit high... So, I need to stretch the period just a very small amount. Hopefully someone will have one of these and will know how to accomplish this tweaking? (Nope, I don't have the manual.)

Thanks,
Bill - WA7TQK

--

Date: Mon, 11 Mar 2002 16:35:16 EST
From: MITCHELLRI@aol.com
To: <qrp-1@lehigh.edu>
Subject: [121848] Brice & Tornado II kits
Message-ID: <117.defe91a.29be7d14@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Just to let all know, I heard back from Brice re the kits. Since AOL messes up many posts, I was unaware of his personal developments.
A general apology to all if I came across sounding impatient. I guess my eagerness to make another kit clouded my head. For the record, Brice is a heads up guy doing a great job and I appreciate it.
Regards to all

Leeds
WA1GJF

Date: Mon, 11 Mar 2002 16:39:59 -0500
From: KKANALZ@prodigy.net
To: <hamjoel@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121849] Re: Your mobile Truck
Message-ID: <AA-A3472CFD9013908B5DD409CCFAEC4043-ZZ@maillink1.prodigy.net>

Joel,
How some more detailed information about what kind of
truck you have (manufacturer, gas or diesel, etc.) and
how or where you are obtaining the power source for
your intended mobile rig -- directly from the battery
posts via appropriate fuses under-the-hood or ?.

Maybe I can lend some help (he'p, down here in Texas!).

Karl K - W8TIF
McKinney, Texas
McKinney's Most Powerful Mobile Station

In Frustration, Joel Wrote:

From: hamjoel@juno.com
To: <qrp-l@Lehigh.EDU>
Subject: Joel's mobile Truck.... continued

>Ok
> hears what ah done today... I took a 12v 5ah
battery into the truck and hooked the qrp+ to it...
checked the receiver and found no noise in it...<snip>

Date: Mon, 11 Mar 2002 17:10:47 -0500
From: "ss lyon" <sslyon@megalink.net>
To: <W2SH@aol.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [121850] Parallel Feed Line: HB vs Commercial
Message-ID: <006d01c1c949\$98f56860\$c7a969ce@megalink.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree that there isn't a lot of difference in performance between solid / window line on one hand and true ladder line on the other hand -in good weather and with shorter runs. But I make most of my parallel feed line now since I've moved to Maine. A point that hasn't received adequate attention is that ice loading is a real problem with commercial "window" line. It causes mechanical failures including broken line, pulled out support insulators, broken siding and downed antennas. Also, detuning due to rain, snow and ice is severe compared to (my) home brew "ladderline", esp. on long runs.

My longest feeder goes 270' up hill and into the woods, then 60' up to the 250' end fed zepp. Currently available commercial stuff doesn't do well over that distance without a whole bunch of supports, and really troublesome tuning changes with weather. A method to make robust HB Parallel Feed Line is described in an article published in NJQRP Home Brewer last year. It's tricky to get the manufacturing process down, but with patience and enough libation, a 250' batch can be made in a little over four hours. The results are well worth teh effort.

73

AA1MY

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Date: Mon, 11 Mar 2002 14:37:55 -0800 (PST)
From: Bill ROWLETT <kc4atu@yahoo.com>
To: k5di@zianet.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [121851] Re: Boots for my FT-817
Message-ID: <20020311223755.67595.qmail@web14208.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Sun spot high, sun spot low, I find that 5 watts works just fine. Why buy a 5 or 10 watt rig when what you want is something more to start with. We true QRP ops will stay at 5 watts or less and will have fun and work DX too.

73 Bill kc4atu

back to the cave

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Date: Mon, 11 Mar 2002 17:38:15 -0500

From: "Philip L. Carter" <pcarter@gcfn.org>

To: unlisted-recipients;; (no To-header on input)

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [121852] Re: [fpqrp] Joel's mobile Truck.... continued

Message-ID: <3C8D31D7.4AAEDF7E@gcfn.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Joel and others:

If it is a '96 Saturn you will have problems. The air bag p/s runs at 146.520, and the wiring conducts fairly well. This was fixed in the '97 and up. When I used the HT on 52 and keyed the 30w amp, the amp would stay keyed if the preamp was off. I can 'hear' the car about 1/2 block away. I have found no fix for that. I don't experience any hf noise on the K2, at least not yet.

Phil

wd8qwr

Date: Mon, 11 Mar 2002 18:17:28 -0500

From: Bill Coleman <aa4lr@arrl.net>

To: <kory@avatar.com>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [121853] RE: Pc Boards Got em ! but No Knowledge

Message-ID: <20020311231851.PKSC27903.imf24bis.bellsouth.net@[192.168.0.21]>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

On 3/6/02 5:55 PM, Kory Hamzeh at kory@avatar.com wrote:

>I have found Manhattan style to be a pain in the rear when it comes to IC's.

>There is are clever ways around this, I'm open to learning about them.

Does no one use wire-wrap anymore?

Actually, I did some boards a few years ago using a 3M system that used IDC connections with wire-wrap wire. A lot faster than wire-wrap.

I think the 3M system was rather expensive, though. I stuff I used was just samples.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 11 Mar 2002 18:26:11 -0500
From: brickle <brickle@pobox.com>
To: qrp-l@lehigh.edu
Subject: [121854] Re: Boots for my FT-817
Message-ID: <3C8D3D13.AA596EFD@pobox.com>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Bill ROWLETT wrote:

> ...Why buy a 5 or 10 watt rig when what you
> want is something more to start with...

Perhaps because all you want is 35 w max on TX, with 450 ma consumption on RX. I'd seriously consider buying that rig if somebody made it. But as far as I know, nobody does. As it is, an FT-817+HFPacker amp fills the bill.

73
Frank
AB2KT

Date: Mon, 11 Mar 2002 18:27:27 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <WD8CIV@worldnet.att.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [121855] Re: Pioneer 10

Message-ID: <20020311232850.DJKH19878.imf22bis.bellsouth.net@[192.168.0.21]>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 3/5/02 8:21 AM, David Hinerman at WD8CIV@worldnet.att.net wrote:

>Well, maybe - NASA's ERP on the outbound leg was probably pretty
>substantial.

Yes, but the return signal can't be using that much power -- the doggone
thing is powered by a radioisotope/thermocouple generator. No much power
at all.

>But I suspect we're into the "astronomical units per watt"
>scale now.

Hmm. An AU is about, what, 16 light minutes? Pioneer 10 is 11 light-hours
out. That's about 41 AU.

>What amazes me is that Pioneer 10 is still functioning after ~30 years. Now
>THAT'S engineering!

They don't build them like they used too.

I understood that just about all of Pioneer 10's instrumentation had
failed. That perhaps only one scientific instrument was still functioning.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
 -- Wilbur Wright, 1901

Date: Mon, 11 Mar 2002 15:45:31 -0800
From: "Kory Hamzeh" <kory@avatar.com>
To: <brickle@pobox.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [121856] RE: Boots for my FT-817
Message-ID: <001b01c1c956\$d4ef2f60\$14ce21c7@avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> brickle
> Sent: Monday, March 11, 2002 3:26 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Boots for my FT-817
>
>
> Bill ROWLETT wrote:
>
> > ...Why buy a 5 or 10 watt rig when what you
> > want is something more to start with...
>
> Perhaps because all you want is 35 w max on TX, with 450 ma consumption
> on RX. I'd seriously consider buying that rig if somebody made
> it. But as far
> as I know, nobody does. As it is, an FT-817+HFPacker amp fills the bill.
>
> 73
> Frank
> AB2KT

I would just modify a K-2 to get 20 to 30 watts out using a different PA.
The HFPacker amp is not very CW friendly (i.e. you lose QSK).

73,
Kory
AC6RN

Date: Mon, 11 Mar 2002 18:57:33 -0500
From: kb1dxc <kb1dxc@discovernet.net>
To: qrp-1@Lehigh.EDU
Subject: [121857] RE: [QRPP-I] Re: WQ3RP DE K8XF
Message-ID: <a05100301b8b2f4a82ece@[216.221.130.178]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Yea,

Both of them.

Mike

>I wonder if there is a DE QSO party. I'm sure there would be plenty of DE
>stations available.

>

>Mark, AA4MF

End of QRP-L Digest 2491
